

**UIIC AO Previous Year Paper (February 2024)**

**Directions (1-9): Read the following passage and answer the given questions.**

OCD, also known as Obsessive Compulsive Disorder is a type of mental illness which leads to repeated thoughts and the urge to do something over and over again. The 'obsession' is concerning the recurring unwanted thoughts, while the 'compulsion' is the urge to do something multiple times. The disorder can start from a really early age, while some people develop it at a later stage of life. The obsession or compulsion habits might fluctuate or change with time. You must be able to detect OCD correctly, as people often confuse it with their normal habits. A doctor is the best person to consult in such a scenario. He can not only correctly determine the status of your condition but also suggest the kind of treatment needed. Many people ignore this disorder and several are not even aware whether they have it or not. They unknowingly suffer in silence and don't know that their condition is because of a neurological problem. It is neither a matter of shame nor something to be afraid of, as a large amount of the population have this disorder.

According to the World Health Organization, OCD is one of the top 20 causes of illness-related disability, worldwide, for individuals between 15 and 44 years of age. Many other health conditions, such as anxiety issues, depressive episodes, attention deficiency, eating disorder, bipolar condition might also co-exist with OCD. People with OCD already deal with a lot, which is why they need the support of their near ones. Social stigma is a big issue, which is why many patients shy away from seeking medical help. OCD cannot be prevented as people might develop this habit at any age. However, if diagnosed early, this disorder can be easily treated. If not **detected** or treated, the disorder can turn worse and might **disrupt** your day-to-day activities. With proper treatment, it can not only be controlled but also managed well. In simpler words, the brains of some people might function differently which gives rise to OCD, as there is no exact reason \_\_\_\_\_ the disorder.

OCD is a neurological disorder, which is why the treatment might take longer as compared to other diseases. Here are a few treatment options you can consider, only after consulting your doctor first.

In Psychotherapy, your doctor will place you in a situation designed to **create** tension or resolve compulsions. You will learn to reduce your OCD thoughts or actions through this method. It works on the principle of cognitive behavioural therapy, which can help change your way of thinking.

Medicines and drugs can also aid the process of controlling OCD. Meds which have selective serotonin reuptake inhibitors help many people control obsessions and compulsions. The effect of the medicines might take at least 2 months to show and the treatment might continue for a long-time frame. Some common medicines given to OCD patients are- citalopram (Celexa), escitalopram (Lexapro), fluoxetine (Prozac), fluvoxamine, paroxetine (Paxil), and sertraline (Zoloft).

In rare cases, when treatment and medication do not make much difference, certain devices might be used that alter electrical activity in a specific area of your brain. It is called Neuromodulation.

TMS (transcranial magnetic stimulation) is a device which is held above the head of the patient to induce a magnetic field. It targets some specific parts of the brain that regulate OCD symptoms.

The simplest of all methods, which incorporates yoga, exercising, meditation and chanting might also be helpful in mild to moderate cases of OCD. These methods relax the brain and also boosts its capacity. Regularly practicing chanting, meditation or any kind of physical activity can bring about a significant difference.

**Q1. According to the author, what is the reason for OCD not being recognized as a disorder by an individual?**

- (a) The symptoms of OCD resemble our daily habits hence people get bemused in detection.
- (b) OCD is a mental illness which is very often portrayed in the media which leads to people not taking it seriously.
- (c) The lack of awareness about this disorder can have people not recognizing that it is a serious problem.
- (d) None of the above
- (e) All of the above

**Q2. What does the author state is the reason for people not seeking a professional to help deal with OCD?**

- (I) There is little to no help available while confronting this disorder since it is not a very well-researched phenomenon.
  - (II) There are a lot of negative notions about OCD in society that can prevent the person suffering from it from seeking help.
  - (III) OCD is not recognized by the medical industry as a real disorder/illness, hence, there are no professionals available to treat it.
- (a) Statements (II) and (III)
  - (b) Only (II)
  - (c) Statements (I) and (III)
  - (d) Only (III)
  - (e) Only (I)

**Q3. From the information given to us in the passage, we can conclude that the treatment takes longer to reach its end. Why is it so?**

- (a) There are many different layers and steps to the treatment of OCD which makes it a longer procedure.
- (b) OCD is not recognised by the medical field and hence, does not have prominent methods of treatment to be performed.
- (c) This is a type of disorder that is neurological in nature, which needs more recovery time
- (d) None of the above
- (e) All of the above

**Q4. Which of the following remedies is NOT mentioned by the author in the passage as a way to treat OCD?**

- (a) Introduction of devices which help narrow down the electric activity of the brain and work upon them to change the functioning of the brain.
- (b) Many relaxation techniques (like yoga, meditation and chanting) have been proven to be effective for some OCD diagnosed individuals.
- (c) Activities like taking up newer hobbies (like reading, playing a sport, cooking, etc.) can help these individuals to divert their brains from obsessive-compulsive behaviours.
- (d) None of these
- (e) All of these

**Q5. What is the core message of the passage that the author is trying to relay to the readers?**

- (a) The author aims to spread awareness about the OCD disorder so that it can be taken seriously and then goes onto suggest different remedies to it which can be opted for after the diagnosis.
- (b) Explanation of how OCD is different than other mental disorders/illnesses and discusses parameters of the differences.
- (c) The passage talks about different mental illnesses and how they are active in society and the lack of awareness around them.
- (d) None of the above
- (e) All of the above

**Q6. If OCD were to be treated by psychotherapy, how does the treatment be done?**

- (I) Talking about OCD related thoughts in psychotherapy helps them give it a vent and that leads to a reduction in obsessive actions/thoughts.
  - (II) An OCD diagnosed person is put in a case to create tension or resolve compulsion thereby helping them reduce the frequency of them.
  - (III) Psychotherapists refer these individuals to psychiatrists which are more efficient in dealing with disorders like OCD and such.
- (a) Both (II) and (III)
  - (b) Only (II)
  - (c) Both (I) and (III)
  - (d) Only (III)
  - (e) Both (I) and (II)

**Q7. Select the synonym of detect as highlighted in the passage.**

- (a) exploit
- (b) obscure
- (c) recognize
- (d) symbolic
- (e) None of the above

**Q8. Select the antonym of create as highlighted in the passage.**

- (a) cryptic
- (b) abolish
- (c) whimsical
- (d) remorse
- (e) None of the above

**Q9. Which one of the following words will be used to complete the phrase 'reason \_\_\_\_\_ the disorder'?**

- (a) behind
- (b) along
- (c) carry
- (d) almost
- (e) at

**Directions (10-14):** Given below is a paragraph that has blank spaces. Corresponding to each blank, five options are given, out of which only one is appropriate. Choose the option that fits most suitably in the given blank making sentence grammatically and contextually correct.

The Indus Valley Civilization was a cultural and political entity which \_\_\_\_\_ (A) in the northern region of the Indian subcontinent between c. 7000 - c. 600 BCE. Its modern name \_\_\_\_\_ (B) from its location in the valley of the Indus River, but it is also commonly referred to as the Indus-Sarasvati Civilization and the Harrapan Civilization. These latter designations come from the Sarasvati River mentioned in Vedic sources, which flowed \_\_\_\_\_ (C) to the Indus River, and the ancient city of Harappa in the region, the first one \_\_\_\_\_ (D) in the modern era. None of these names derive from any ancient texts because, although scholars generally believe the people of this civilization developed a writing system (known as Indus Script or Harappan Script) it has not yet been \_\_\_\_\_ (E).

**Q10. Which of the following words will fit in the given blank (A)?**

- (a) reigned
- (b) enhanced
- (c) flourished
- (d) frittered
- (e) shattered

**Q11. Which of the following words will fit in the given blank (B)?**

- (a) concludes
- (b) derives
- (c) subsumes
- (d) dispersed
- (e) abducts

**Q12. Which of the following words will fit in the given blank (C)?**

- (a) eminence
- (b) falter
- (c) onset
- (d) augur
- (e) adjacent

**Q13. Which of the following words will fit in the given blank (D)?**

- (a) provoke
- (b) found
- (c) assemble
- (d) incept
- (e) invent

**Q14. Which of the following words will fit in the given blank (E)?**

- (a) reckoned
- (b) faltered
- (c) prospected
- (d) deciphered
- (e) endured

**Directions (15-19):** In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your answer. If the sentence is correct then select 'No replacement required' as your answer.

**Q15.** Whenever **it is raining**, waterlogging in streets and roads is the most common problem the city faces.

- (a) it is rains
- (b) it is rained
- (c) it rain
- (d) it rains
- (e) No replacement required

**Q16.** Each of the **family member is** invited for the dinner today.

- (a) family member are
- (b) family members is
- (c) family members
- (d) families' members are
- (e) No replacement required

**Q17.** Don't let people's criticism **to get to your** heart.

- (a) to got to your
- (b) to get to your's
- (c) to get in your
- (d) get to your
- (e) No replacement required

**Q18.** Remote work **has remained a** popular model among employees.

- (a) has been remain
- (b) have been remained
- (c) have remain
- (d) had been remaining
- (e) No replacement required

**Q19.** Not only India but some other countries **also faces the impacts of** climate change.

- (a) also faces the impacts for
- (b) too faces the impacts of
- (c) also face the impacts of
- (d) also face the impacts by
- (e) No replacement required

**Directions (20-23):** A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner.

**Q20. Vacant**

- (i) The number of **vacant** seats in the college will be announced soon
- (ii) As soon as I got on the bus I saw only one **vacant** seat.
- (iii) You should **vacant** for your home otherwise you will be late.
- (a) Only (ii)
- (b) Both (ii) and (iii)
- (c) Only (i)
- (d) Both (i) and (ii)
- (e) All of these

**Q21. Supervise**

- (i) Jack is unemployed so he is **supervise** a job
- (ii) Government has ordered that government officials will **supervise** elections.
- (iii) The only thing which I miss the most is **supervise** television for hours.
- (a) Only (ii)
- (b) Both (ii) and (iii)
- (c) Only (i)
- (d) Both (i) and (iii)
- (e) All of these

**Q22. Execute**

- (i) If there is an **execute** constraint, a solution must be sought.
- (ii) Every day you fail to **execute** the task, the penalty for failure worsens.
- (iii) A debtor who is not insolvent may also **execute** a deed in favor of his creditors generally.
- (a) All of these
- (b) Only (i)
- (c) Both (ii) & (iii)
- (d) Both (i) & (ii)
- (e) Only (iii)

**Q23. Fuming**

- (i) The man was **fuming** after a gold chain was stolen from his hotel room.
- (ii) The Husband was **fuming** when his wife refused to follow family rituals.
- (iii) The company earned the highest revenue ever which made the CEO very **fuming**.
- (a) All of these
- (b) Only (i)
- (c) Both (ii) & (iii)
- (d) Both (i) & (ii)
- (e) Only (iii)

**Directions (24-27):** Two columns are given with a few sentences/phrases in each which are grammatically correct and meaningful. Connect them in the best possible way without changing the intended meaning. Choose the best possible combination as your answer accordingly from the options to form a correct, coherent sentence.

**Q24. COLUMN I**

- (A) Drastic changes in climate patterns have adversely impacted
  - (B) Climate change has only compounded the financial issues of growers of
  - (C) In spite of requests from coffee associations and circulars from the
- COLUMN II
- (D) while the cost of labour is on the rise in the coffee sector.
  - (E) pattern of droughts and floods could wipe out plantations.
  - (F) India's coffee production and the quality of the crop.

- (a) Only (A)-(D) and (C)-(F)
- (b) Only (A)-(F)
- (c) Only (B)-(F) and (C)-(D)
- (d) Only (B)-(D)
- (e) None of these

**Q25. COLUMN I**

- (A) Despite having varieties of mustard
  - (B) India has the largest diaspora population
  - (C) Since the rich command a disproportionately large share of country's income,
- COLUMN II
- (D) getting them wrong is a big problem
  - (E) their wanting to exercise their mandate
  - (F) India continues to be a net oil importer due to poor yields

- (a) Only (A)-(F) and (C)-(D)
- (b) Only (A)-(F)
- (c) Only (B)-(F) and (C)-(E)
- (d) Only (B)-(D)
- (e) None of these

**Q26. COLUMN I**

- (A) The autonomic pathway involves a chain of two fibers
  - (B) One question has been what responsibility richer countries owe towards poorer nations
  - (C) Many complex problems have been reduced to manageable terms
- COLUMN II
- (D) especially if the test and trace system could be fully fixed in that time
  - (E) particularly when it comes to ensuring the equitable distribution of a vaccine.
  - (F) this is how it dawns on you that it is things which are devoid of intrinsic existence

- (a) Only (A)-(F) and (C)-(D)
- (b) Only (A)-(F)
- (c) Only (B)-(F) and (C)-(E)
- (d) Only (B)-(E)
- (e) None of these

**Q27. COLUMN I**

- (A) Once you've submitted your application and assessment
- (B) The US opened a probe into the partnership to determine
- (C) Eventually this water is released through transpiration into the atmosphere

**COLUMN II**

- (D) that the act will lead to that outcome.
- (E) we'll send an email to confirm we've received it.
- (F) whether company's use of medical records breaks privacy law.

- (a) Only (A)-(F) and (C)-(D)
- (b) Only (C)-(F)
- (c) Only (B)-(F) and (A)-(E)
- (d) Only (B)-(D)
- (e) None of these

**Directions (28-34): Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The corresponding letter of that part is the answer. If the given sentence is grammatically and contextually correct, then choose option "No error" as answer. (Ignore errors of punctuation, if any.)**

**Q28.** E-commerce companies made (A) /delivery their core competency (B) /by putting boots on the (C) /ground and even drones in the sky. (D) /

- (a) A
- (b) B
- (c) D
- (d) C
- (e) No error

**Q29.** The ubiquitous growth of the internet and the rise of (A) /e-commerce have fuelled hyper lapse consumerism, which (B) / refers not only to the kinds of products been sold but (C) /also to the ease with which consumers order them. (D) /

- (a) A
- (b) C
- (c) D
- (d) B
- (e) No error

**Q30.** A storehouse of nutrients, (A) / the drumstick is a (B) /common part of the (C) / daily diet in southern India./ (D)

- (a) A
- (b) C
- (c) D
- (d) B
- (e) No error

**Q31.** For the classical period, there have (A) / been significant contributions from (B) / literary personalities belonging to (C) / Sri Lanka's Tamils to Tamil literature./ (D)

- (a) B
- (b) A
- (c) D
- (d) C
- (e) No error

**Q32.** The sunlight from the old and (A) /arched window of the gallery was (B) /falling on the panels of painting (C) / making a shadow-like triangles. (D) /

- (a) A
- (b) C
- (c) D
- (d) B
- (e) No error

**Q33.** The number of girl students (A)/have increased in educational (B)/ institutions to give more impetus (C)/ to the progress of the country (D)/ No error (E)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Q34.** Hardly he had eaten (A)/anything after the rift (B)/ which occurred between (C)/ him and his mother (D)/ No error (E)

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error

**Directions (35-40): In the question six sentences are given, in which one is incoherent with the other sentences. Eliminate that incoherent sentence and rearrange the rest into a meaningful order before proceeding with the questions based on it.**

(A) They adopted a particular strategy of economic development: rapid industrialization and investing the profit in state-owned enterprises.

(B) Their strategy of increasing agricultural production was based on plans to reform agrarian institutions

(C) Industrialization was pursued because leaders believed that the industrial sector offers the greatest scope of growth.

(D) It was to lift living standards of a people whose average income that was one-fifteenth of the average American income.

(E) The task that the democratically elected leaders of newly independent India embarked on in the early 1950s was not for the faint of heart.

(F) The industries chosen were those producing basic and heavy industrial goods such as steel, chemicals, machines, locomotives, and power.

**Q35. Which of the following statements will be the fourth statement after rearrangement?**

- (a) A
- (b) F
- (c) B
- (d) D
- (e) C

**Q36. Which of the following statements is incoherent with the context of the paragraph?**

- (a) A
- (b) F
- (c) B
- (d) D
- (e) C

**Q37. Which of the following statements will be the first statement after rearrangement?**

- (a) F
- (b) E
- (c) C
- (d) D
- (e) B

**Q38. Which of the following statements will be the last statement after rearrangement?**

- (a) F
- (b) E
- (c) C
- (d) D
- (e) B

**Q39. Which of the following statements will be the second statement after rearrangement?**

- (a) F
- (b) E
- (c) C
- (d) D
- (e) B

**Q40. Which of the following will be the correct sequence of the statements after rearrangement?**

- (a) ECAFD
- (b) BDACF
- (c) EDAFC
- (d) BACDF
- (e) CDAFE

**Directions (41-45): Study the following information and answer the questions that follow:**

Fourteen people are sitting in two parallel rows containing seven people each, in such a way that there is an equal distance between adjacent persons. In row-1 P, Q, R, S, T, U and V are seated and all of them are facing north. A, B, C, D, E, F and G are sitting in row-2 and facing south **Directions** but not necessarily in the same order.

T is the only immediate neighbour of V. C sits two places away from the one who faces to T. The number of persons sit to the right of C is same as the number of persons sit to the left of P. Q sits 2<sup>nd</sup> to the left of P. B faces to the one who sits 3<sup>rd</sup> to the right of R. One person sits between A and F and both of them do not sit at the extreme ends. U faces to the one who sits 2<sup>nd</sup> to the right of A. E sits right of D but not sit at the extreme ends.

**Q41. How many persons sit to the right of the one who faces to E?**

- (a) Five
- (b) Four
- (c) Six
- (d) Two
- (e) None of these

**Q42. If all the persons sit according to the alphabetical order from left in the row-1 then, position of how many persons remain unchanged?**

- (a) One
- (b) Three
- (c) Four
- (d) Two
- (e) None

**Q43. Who among the following faces to E?**

- (a) U
- (b) R
- (c) Q
- (d) S
- (e) None of these

**Q44. Which of the following statement(s) is/are true?**

- (a) Two persons sit between U and P
- (b) T faces to B
- (c) F sits left of A
- (d) R does not sit at extreme ends
- (e) All are true

**Q45. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?**

- (a) E
- (b) S
- (c) P
- (d) B
- (e) D

**Directions (46-48): Study the following information and answer the questions that follow:**

Swimmer "Ranjan" started to swim from river A. He swims 10km in the south and reach at river M. He takes his right turn and swim 25km to reach at river F. He takes another right turn and swim 20km to reach at river L. Now he takes consecutive three left turns and swim 20km, 40km and 35 km and reach at river C, G and B respectively. Now Ranjan takes his right and swim 20km and reach at river H. After that he takes two consecutive left turn and swim 15km and 30km to reach at river E and river D respectively.

**Q46. What is the total distance swim by "Ranjan" from river L to river B?**

- (a) 115km
- (b) 95km
- (c) 105km
- (d) 9.5km
- (e) None of these

**Q47. In which Directions is river A with respect to river D?**

- (a) North-west
- (b) South-east
- (c) North
- (d) North-east
- (e) None of these

**Q48. How far and in which Directions is river E with respect to river B?**

- (a) 35km, south-east
- (b) 25km, south-west
- (c) 25km, south-east
- (d) 35km, north-east
- (e) 25km, north-west

**Directions (49-53): Study the following information and answer the questions that follow:**

Six persons U, V, W, X, Y and Z join conference on either 12<sup>th</sup> or 29<sup>th</sup> of different months of a year viz. March, May, September in six different cities but not necessarily in the same order.

X joins conference two persons before the one who joins in Shillong but not on an even date. One person joins conference between X and U who joins in Noida. Y does not join just after and just before of X and U. V joins just after the one who joins in Shimla. W joins before Z but not join in Chandigarh. V neither joins in Chandigarh nor Gangtok. More than two persons join between the ones who join in Bhopal and Gangtok.

**Q49. How many persons join conference between U and the one who joins just after V?**

- (a) None
- (b) Two
- (c) Three
- (d) One
- (e) Four

**Q50. The number of persons join between the ones who join in Noida and Chandigarh as same as between \_\_\_\_ and \_\_\_\_.**

- (a) U, X
- (b) W, Y
- (c) X, V
- (d) V, Z
- (e) Z, Y

**Q51. \_\_\_\_ joins on \_\_\_\_ numbered date in Chandigarh.**

- (a) Z, Even
- (b) Y, Odd
- (c) X, Even
- (d) Y, Even
- (e) U, Odd

**Q52. Who among the following pair of persons join the conference in the month which having more than 30 days?**

- (a) U and the one who joins in Shillong
- (b) V and Z
- (c) W and the one who joins in Bhopal
- (d) Z and the one who joins in Gangtok
- (e) None of these

**Q53. If all the persons are arranged in reverse alphabetical order from top to bottom then, who among the following persons remain unchanged at their position?**

- (a) Only W
- (b) Both X and V
- (c) Only Y
- (d) Both U and X
- (e) Only V

**Directions (54-58): In each of the following questions, some statements are given followed by five conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions definitely follows from the given statements disregarding commonly known facts.**

**Q54. Statements:** All steel is copper. Only a few iron is steel. Only brass is zinc. Some copper is not brass.

**Conclusions:** (a) All zinc can be steel.

- (b) Some steel is not brass
- (c) All brass being iron is not a possibility
- (d) Some copper is brass
- (e) Some iron is not copper

**Q55. Statements:** Only a few pound is rupees. All dollar is pound. Only a few euro is rupees. No dollar is euro.

**Conclusions:** (a) All rupees being dollar is a possibility

- (b) All pound can never be euro
- (c) Some pound being not rupees is a possibility
- (d) Some rupees is not euro
- (e) Some dollar is not rupees

**Q56. Statements:** Only white is black. Some pink is blue. Only a few white is blue. Only a few red is pink.

**Conclusions:** (a) Some white being not blue is possibility

- (b) All white can be pink
- (c) Some red is not white
- (d) All red can never be pink
- (e) No pink being black is a possibility

**Q57. Statements:** Only a few cream is chips. No noodles are chips. Some cream is not Maggie. Some cake is Maggie.

- Conclusions:** (a) Some chips is not cream  
(b) All cake being Maggie is not a possibility  
(c) Some chips can be cake  
(d) Some noodles can never be cream  
(e) Some cake is chips

**Q58. Statements:** No response is action. Only a few action is reset. Only served is shadow. Some response is served.

- Conclusions:** (a) Some action is shadow  
(b) No reset is served  
(c) Some action can never be served  
(d) All action can be reset  
(e) No shadow is response

**Directions (59-63): Study the following information carefully and answer the given questions:**

Eight persons A, B, C, M, N, O, V and W are seated around a circular table. They all have different ages- 24, 16, 19, 30, 27, 45, 36 and 10. Four of them are facing towards the center and rest outside the center. All the information is not necessarily in the same order.

A sits third to the left of C, who is 12 years older than A. Both are facing opposite **Directions** to each other. B whose age is 45 years sits second to the right of N who is facing towards the center. O sits opposite to V who is 16 years old and facing opposite to the center. W sits second to the left of A and age difference between immediate neighbors of W is 6 years. B is not an immediate neighbor of A and C. N is 9 years older than M who is facing towards the center. O faces same **Directions** as N but opposite to W.

**Q59. Who among the following is third oldest person?**

- (a) A  
(b) C  
(c) O  
(d) M  
(e) None of these

**Q60. Who among the following is 10 years old?**

- (a) A  
(b) M  
(c) B  
(d) N  
(e) O

**Q61. Who among the following sits opposite to the one who is 16 years old?**

- (a) W  
(b) C  
(c) The one whose age is 30 years  
(d) The one whose age is 24 years  
(e) M

**Q62. What is the age of N (in years)?**

- (a) 36
- (b) 45
- (c) 27
- (d) 19
- (e) 30

**Q63. Who among the following sits immediate left of the one who is youngest person?**

- (a) B
- (b) A
- (c) V
- (d) O
- (e) C

**Directions (64):** One of the unfortunate paradoxes of our lives today is that despite adequate food production and unimaginable advances in technology, one in three persons worldwide is not getting enough of the right food to eat and approximately 800 million of seven billion sleep hungry every night. Poor diets globally are more responsible for ill health as compared with the combined effect of drugs, tobacco and alcohol. According to the International Food Policy Research Institute, India needs focus not only on rice and wheat — more diversity is needed, with the addition of vegetables, fruits and dairy farming.

**Q64. What may be the appropriate reason that one in three persons worldwide sleep hungry every night?**

- (I) Government of different countries has not revised taxes on food products which is high as per International Food Policy Research Institute.
  - (II) Technology has not been updated since many years which results less production.
  - (III) Food waste and food loss during harvest, storage and transit.
- (a) Only II and III
  - (b) Only III
  - (c) Only I and III
  - (d) Only I and II
  - (e) All of three

**Q65. If the 3<sup>rd</sup> letters from the right end of all the given group of words are taken as it to form a new four-letter meaningful word (each letter use once only), then find which of the following group of words will form a meaningful word?**

- I. Ground, Neat, Print, Leakage
  - II. Pillow, Pictures, Hump, Pest
  - III. Street, Layer, Newly, Fresh
- (a) Only I
  - (b) Both II and III
  - (c) Only III
  - (d) Only II
  - (e) None of these

**Directions (66-70): Study the following information carefully and answer the questions given below-**

A certain number of persons sit in a row facing to the north. Some of them like different colours viz. Black, Blue, Hazel and Pink but not necessarily in the same order.

The one who likes blue sits 3<sup>rd</sup> to the right of T. One person sits between R and T. The number of persons sit between R and the one who likes blue is one more than the number of persons sit to the left of R. E sits exactly between W and R. T sits right of W. The one who sits at the extreme ends likes black. L does not like black. Y and the one who likes blue are immediate neighbours. Y sits 4<sup>th</sup> to the right of the one who likes Hazel and 4<sup>th</sup> to the left of the one who likes pink. R does not like Hazel. L and the one who likes pink are immediate neighbours. U sits 3<sup>rd</sup> to the left of L. H is the only immediate neighbour of L.

**Q66. How many persons sit to the left of the one who sits immediate left of U?**

- (a) More than 10
- (b) 10
- (c) 7
- (d) 8
- (e) 4

**Q67. Which of the following statement is true?**

- I. Immediate neighbour of T likes Hazel
- II. E does not sit at the extreme ends.
- III. Y does not sit right of T

- (a) Both I and III are true
- (b) Both II and III are true
- (c) Only II is true
- (d) Only III is true
- (e) None is true

**Q68. \_\_\_ likes \_\_\_ and sits \_\_\_ from one of the extreme ends?**

- (a) T, hazel, 4<sup>th</sup>
- (b) H, pink, 2<sup>nd</sup>
- (c) U, blue, 4<sup>th</sup>
- (d) Either T, hazel, 4<sup>th</sup> or H, pink, 2<sup>nd</sup>
- (e) None of these

**Q69. How many persons sit between the ones who like blue and black?**

- (a) Seven
- (b) Eight
- (c) Six
- (d) Four
- (e) More than seven

**Q70. The number of persons sit between T and the one who likes black is half than the number of persons sit between \_\_\_ and the one who likes \_\_\_.**

- (a) Y, pink
- (b) U, black
- (c) R, hazel
- (d) Y, black
- (e) None of these

**Directions (71-72):** Restrictions and curfews have been enforced once again in several parts of the country owing to the unprecedented surge of Covid-19 cases, especially in urban hot spots of the viral illness. The curbs have triggered fear among migrant workers in metropolises, many of whom have begun leaving cities to go back to their hometown over concerns that they could be stranded in the middle of another full-fledged lockdown if the trend continues.

**Q71. Which of the following is not in line of the above statement?**

- (I) Australian Government has put a ban on the flights coming from India due to rapid increase in number of corona cases in India.
  - (II) At New Delhi railway station, there is large gathering of workers to travel Patna & Gorakhpur.
  - (III) IPL is conducting in India this year despite of increasing in number of cases and it will boost the Indian economy.
- (a) Only I and III
  - (b) Only II and III
  - (c) Only III
  - (d) Only I and II
  - (e) None of them

**Q72. What course of action Central and State government of metropolitan cities should take to solve the issue of migrant workers?**

- (I) All the restriction which has been taken to control corona should be withdrawal immediately.
  - (II) Compensation should be provided to migrant workers monthly which get affected due to these restrictions.
  - (III) Government should not impose a complete lockdown, keeping in mind of the bread and butter for migrant workers.
- (a) Only I and III
  - (b) Only II
  - (c) Only II and III
  - (d) Only III
  - (e) Only I and II

**Directions (73-76):** Each of the following questions below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and give answer.

- (a) If the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) If the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) If the data either in statement I alone or statement II alone is sufficient to answer the question.
- (d) If the data in both the statements I and II together are not sufficient to answer the question.
- (e) If the data in both the statements I and II together are necessary to answer the question.

**Q73. Eight persons P, Q, R, S, T, U, V and W stand in a row and all face south Directions . If U does not stand at any of the extreme ends of the row, then how many persons stand between U and P?**

**Statement I:** P stands third to the left of Q. Equal number of persons stand to the left of P and right of Q. Three persons stand between R and S and none of them stand adjacent to Q. V stands second to the left of S who is an immediate neighbour of T.

**Statement II:** W is the only neighbour of R and stands fourth to the right of P. One person stands between P and T. U is not an immediate neighbour of T who stands at one of the positions to the left of Q.

**Q74. What is the age of param if he is three years younger to his brother (2016 is considered as base year)?**

**Statement I:** Param's mother remembers that his brother was born in a leap year after 1991 but before 2008.

**Statement II:** Param's age is a prime number but not less than 9 and his brother's birth year is a multiple of 8.

**Q75. Six boxes are placed in a row in descending order from left according to their weight. Which is the 3<sup>rd</sup> lightest box among all?**

**Statement I:** More than three boxes are heavier to Q. B is either just heavier or just lighter to Q. I is not the lightest box among all.

**Statement II:** Equal number of boxes are heavier to B and lighter to A. One box is placed between A and O. E is lighter to O.

**Q76. Five persons A, B, C, D and E live on different floors of a five-floor building where ground floor is numbered as 1 and so on till the topmost floor is numbered as 5. D lives on which floor?**

**Statement I:** B lives on an odd numbered floor. C lives two floors below B. A lives adjacent to C. Two persons live between A and E who lives above C.

**Statement II:** E lives three floors above B. Equal number of persons live above and below E and A. One floor gap between A and D.

**Q77. If the expression 'W=F\_T=R=M\_G≥K=L' is definitely true, then which among the following symbols would fill in the blanks to make 'T≥K' and 'M≤W' definitely false respectively?**

- (a) ≤, ≥
- (b) ≥, =
- (c) <, =
- (d) <, >
- (e) ≥, ≥

**Q78. Statement: The current active wet spell over the two states A and B, the largest producer of wheat, brought cheers to farmers, especially wheat growers.**

**Which of the following can be the reason of happiness of wheat growers from the given statement?**

(I) The rain will help in improving photosynthesis resulting in better growth of the crop, which will result in improved yield.

(II) The minimum temperature has also come down which is good for wheat crop as it thrives in cold conditions.

(III) Rain will help in reducing pressure on groundwater and would also help in retaining soil moisture.

(IV) As the both states A and B are biggest crop producer and completely dependent on farming as occupation so adequate amount of rain at right time is a matter of joy for them.

- (a) Only I and II are implicit
- (b) Only III is implicit
- (c) Only III and IV are implicit
- (d) All are implicit
- (e) Only I, II and III are implicit

**Directions (79-83):** A word and number rearrangement machine when given an input line of words and numbers rearranges them following a particular rule. Following is an illustration of input and the rearrangement.

**Input:** 44 Practise Makes 27 You 15 Perfect 37

**Step I.** 15 44 Practise 27 You Perfect 37 Makes

**Step II.** 15 27 44 Practise You 37 Makes Perfect

**Step III.** 15 27 37 44 You Makes Perfect Practise

**Step IV.** 15 27 37 44 Makes Perfect Practise You

And step IV is the last step of the arrangement of the above input as the intended rearrangement is obtained. As per the rules followed in the above steps, answer the following questions based upon the

**Input:** Your 64 Success 16 Defines 20 You 33

**Q79.** What will be the sum of the 3<sup>rd</sup> element from left end in step III and 3<sup>rd</sup> element from right end in step II?

- (a) 53
- (b) 46
- (c) 66
- (d) 84
- (e) 36

**Q80.** In which step elements “33 Your 64 Defines” is found in same manner?

- (a) Step I
- (b) Step II
- (c) Step III
- (d) Step IV
- (e) No such Step

**Q81.** Which among the following element is 4<sup>th</sup> to the right of the element which is 2<sup>nd</sup> from left end in step II?

- (a) Defines
- (b) Success
- (c) 64
- (d) You
- (e) 33

**Q82.** How many elements are there between “20” and “You” in Step IV?

- (a) None
- (b) One
- (c) Three
- (d) Two
- (e) More than three

**Q83.** Which of the following element is in exact middle of “Your” and “You” in step III?

- (a) Success
- (b) Defines
- (c) 64
- (d) 20
- (e) 33

**Q84. How many pairs of letters are there in the word “INDUSTRIAL”, each of which have as many letters between them in the word as they have in English alphabetical series both in forward and backward Directions ?**

- (a) One
- (b) Three
- (c) Two
- (d) Four
- (e) More than four

**Directions (85-89): Study the following information carefully and answer the questions given below.**

Seven persons from A to G were completed their graduation in seven different years – 1998, 2001, 2005, 2008, 2013, 2018 and 2021 from different colleges- Stephen, Sent Marry, George mount, SGRR, JNU, GLNA and Marine. All the information is not necessarily in the same order except years. D completed his graduation immediately before the one who is graduated from George mount and completed his graduation in an even numbered year but not in a leap year. As many persons completed their graduation after the one who is graduated from George mount as before the one who is graduated from Marine. The difference between the year of the one who is graduated from Marine and E’s graduation year is 3 years. Three persons were graduated between E and the one who is graduated from Sent marry. G completed his graduation two persons before the one who is graduated from Sent marry. A completed his graduation immediately before the one who is graduated from Stephen. A doesn’t completed his graduation in an even numbered year. No one completed the graduation between the one who is graduated from GLNA and the one who is graduated from SGRR. C is graduated immediately before the one who is graduated from SGRR. F is graduated after the one who is graduated from JNU.

**Q85. Who among the following is graduated from JNU?**

- (a) D
- (b) B
- (c) C
- (d) E
- (e) Can’t be determined

**Q86. How many persons are graduated between C and F?**

- (a) Five
- (b) Four
- (c) None
- (d) Three
- (e) Two

**Q87. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?**

- (a) B
- (b) F
- (c) The one who is graduated from SGRR
- (d) The one who is graduated from Marine
- (e) A

**Q88. E is graduated from which of the following college?**

- (a) Marine
- (b) GLNA
- (c) Either Marine or GLNA
- (d) JNU
- (e) SGRR

**Q89. Which among the following statement(s) is/are true?**

- I. F and D completed their graduation in 2021 and 2018 respectively
- II. The sum of the years in which A and B completed their graduation is 4018
- III. At-least one person is graduated after D

- (a) Only I
- (b) Both I and III
- (c) All I, II and III
- (d) Only III
- (e) Both II and III

**Q90. Statement: Use for 2 weeks, your face will get pimple free. It is 100% tested and there is no side effect-Advertisement by a face wash company Y.**

**Assumption:**

- (I) Pimple on face is common people issue.**
- (II) People believe on tested products.**
- (III) Stock of face wash by company will be sold in a week.**

- (a) Only I and III
- (b) Only II and III
- (c) Only II
- (d) Only I and II
- (e) All of three

**Q91. A container contains 144 liters of milk and water in the ratio of 11:7 respectively. If 'X' liters of mixture taken out and  $\left(\frac{X}{2} - 5\right)$  litres of water added in the remaining mixture, then the ratio of milk to water becomes 6:5. Find the value of  $\frac{X}{4}$ .**

- (a) 8
- (b) 3
- (c) 6
- (d) 9
- (e) 15

**Q92. Cost price of article P is Rs.180 more than that of article Q. Article P sold at 28% profit and article Q sold at 80% profit. If difference between selling price of articles P and Q is Rs.116, then find the cost price of article P (in Rs).**

- (a) 220
- (b) 250
- (c) 480
- (d) 560
- (e) 400

**Q93.** The perimeter of a square is 112 cm and height of a cylinder is  $\frac{100}{7}\%$  less than side of the square. If volume of the cylinder is  $14784\text{ cm}^3$ , then find the total surfaced area of the cylinder.

- (a)  $3388\text{ cm}^2$
- (b)  $3344\text{ cm}^2$
- (c)  $3550\text{ cm}^2$
- (d)  $3448\text{ cm}^2$
- (e)  $4066\text{ cm}^2$

**Directions (94-98):** Read the table carefully and answer the questions given below.

Table shows total employees (males and females) in four (P, Q, R & S) different companies.

Few values are missing in the table. A candidate is expected to calculate the missing value, if it is required to answer the given question on the basis of the given data.

| Companies | Total employees | Total males | Total females |
|-----------|-----------------|-------------|---------------|
| P         | 800             | ----        | 60%           |
| Q         | ----            | 50%         | ----          |
| R         | 650             | 390         | ----          |
| S         | ----            | 25%         | 690           |

**Q94.** Total employees in company Q and total males in company S are in the ratio of 50:23 respectively. Total females in company Q are what percentage than that of company P(approx.)?

- (a) 48%
- (b) 52%
- (c) 42%
- (d) 61%
- (e) 77%

**Q95.** Total employees in company S are what percentage more/less than the total employees in company P?

- (a) 15%
- (b) 18%
- (c) 12%
- (d) 6%
- (e) 8%

**Q96.** Total males in company X are 25% more than total females in company R. If total employees in company X are two-fifths of the sum of total employees in companies P and R, then find the total females in company X is how much more/less than that of company P.

- (a) 125
- (b) 445
- (c) 325
- (d) 255
- (e) 225

**Q97.** If total males in company P is 60% less than the total employees in company Q, then find the ratio between total males in company Q to total females in company R.

- (a) None of these
- (b) 21:17
- (c) 19:14
- (d) 20:13
- (e) 11:19

**Q98.** Average number of males in companies P, A and S is 260. If total females in company A is 80% of the total employees in company Q, then find the total employees in company A.

- (a) 150
- (b) Can't be determined
- (c) 225
- (d) None of these
- (e) 80

**Directions (99-100):** What approximate value should come in the place of question (?) mark in following questions.

**Q99.**  $? + \sqrt{1369.08} - \sqrt{2024.98} = \sqrt[3]{2196.98}$

- (a) 24
- (b) 28
- (c) 25
- (d) 21
- (e) 27

**Q100.**  $360.09 - 79.88\% \text{ of } 1199.99 = ? - 840.03$

- (a) 250
- (b) 240
- (c) 260
- (d) 220
- (e) 280

**Directions (101-105):** In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer

- (a) If  $x > y$
- (b) If  $x \geq y$
- (c) If  $x < y$
- (d) If  $x \leq y$
- (e) If  $x = y$  or no relation can be established between  $x$  and  $y$

**Q101.** I.  $x^2 + 5x + 6 = 0$

II.  $y^2 + y - 6 = 0$

**Q102.** I.  $2x^2 - 11x + 14 = 0$

II.  $y^2 - 11y + 30 = 0$

**Q103.** I.  $x^2 + x - 42 = 0$

II.  $y^2 + 18y + 77 = 0$

**Q104.** I.  $x^2 + 20x + 99 = 0$

II.  $2y^2 + 15y + 28 = 0$

**Q105.** I.  $5x^2 - 35x + 60 = 0$

II.  $2y^2 - 7x + 6 = 0$

**Directions (106-110): Find the wrong number in given number series below.**

**Q106.** 14, 36, 80, 146, 232, 344, 476

(a) 232

(b) 14

(c) 476

(d) 344

(e) 80

**Q107.** 23, 40, 59, 82, 111, 141, 179

(a) 40

(b) 141

(c) 23

(d) 111

(e) 179

**Q108.** 4, 3, 12, 39, 160, 805, 4836

(a) 12

(b) 4

(c) 3

(d) 39

(e) 805

**Q109.** 128, 132, 159, 175, 300, 516, 679

(a) 128

(b) 159

(c) 132

(d) 516

(e) 300

**Q110.** 3, 26, 64, 115, 177, 248, 328

(a) 26

(b) 3

(c) 64

(d) 26

(e) 328

**Directions (111-115):** The table given below shows total number of items sold and unsold by five (A, B, C, D and E) different shops. Read the table carefully and answer the questions.

**Note:** Total items available in any shop = Number of items sold + Number of items unsold.

| <b>Shops</b> | <b>Total items sold</b>  | <b>Total items unsold</b> |
|--------------|--------------------------|---------------------------|
| <b>A</b>     | 80% of 120               | 20% of 200                |
| <b>B</b>     | $\frac{100}{3}$ % of 117 | $\frac{200}{3}$ % of 150  |
| <b>C</b>     | $\frac{50}{3}$ % of 300  | $\frac{100}{9}$ % of 180  |
| <b>D</b>     | 20% of 125               | 25% of 240                |
| <b>E</b>     | 45% of 180               | 15% of 180                |

**Q111.** Find the ratio of total sold items of C and D together to total unsold item of A and B.

- (a) 15:28
- (b) 28:15
- (c) 15:14
- (d) 14:15
- (e) 11:12

**Q112.** The total unsold items of shop C are sold by shop F and total sold items by shop F is 40% of the total items available in that shop. If total unsold items of shop F are 240, then find total items sold by shop F which are not from shop C.

- (a) 180
- (b) 280
- (c) 150
- (d) 140
- (e) 110

**Q113.** Total items of shop D are what percentage of total sold items of shop C.

- (a) 170%
- (b) 280%
- (c) 150%
- (d) 140%
- (e) 110%

**Q114.** Total unsold items of shop X are equal to total sold items of shop A and total sold items of shop X is 25% more than the total unsold items of shop B. Find the total items (sold + unsold) of shop X.

- (a) 281
- (b) 288
- (c) 255
- (d) 221
- (e) 210

**Q115.** If total revenue generated by shop E is Rs.3240, then find the cost of each item.

- (a) Rs.100
- (b) Rs.80
- (c) Rs.60
- (d) Rs.20
- (e) Rs.40

**Directions (116-118):** The following questions are accompanied by two statements (I) and statement (II). You have to determine which statements(s) is/are sufficient/necessary to answer the questions.

- (a) Neither statement (I) nor statement (II) by itself is sufficient to answer the question.
- (b) Statement (II) alone is sufficient to answer the question but statement (I) alone is not sufficient to answer the question.
- (c) Either statement (I) or statement (II) by itself is sufficient to answer the question.
- (d) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (e) Statement (I) alone is sufficient to answer the question but statement (II) alone is not sufficient to answer the questions

**Q116.** If C's height is 50 cm, then find the sum of height of A, B and C together.

**Statement I:** The sum of the heights of A and C is equal to 160 cm.

**Statement II:** The height of B is equal to 3 times the height of C.

**Q117.** The cost price of an article is Rs.100. What is the profit earned by the shopkeeper on selling the article.

**Statement I:** The marked price of the article was 140% of the cost price.

**Statement II:** A discount of 20% on the marked price was given on the article.

**Q118.** What is the sum of x and y.

**Statement I :**  $15x + 4y = 108$

**Statement II :**  $y = 2 + 15m$

**Q119.** Speed of stream is 3 km/hr and speed of boat in still water is 50% more than speed of the boat in upstream. If boat takes five hours to cover x km in downstream, then find the time taken by the boat to cover (x-24) km in upstream.

- (a) 16 hours
- (b) 12 hours
- (c) 8 hours
- (d) 4 hours
- (e) 6 hours

**Q120.** Length of a train is 120 meters less than that of a platform and speed of train is 54 km/hr. If the train crosses the platform in 20 seconds, then find time taken by the train to cross 135 meters long bridge.

- (a) 9 seconds
- (b) 12 seconds
- (c) 15 seconds
- (d) 18 seconds
- (e) 20 seconds

**Directions (121-125): Read the information carefully and answer the following questions.**

There are five (A, B, C, D and E) friends and their speeds are equal. The distance travelled by A is 100 km less than that of B and the distance travelled by D is twice of the distance travelled by C who travel 100 km more than that of E in 4 hours. The ratio of distance travel by C to that of A is 4:1. Total time taken by all five to cover total distance is 18 hours and average speed of all is 50 km/hr.

**Q121. Find the total distance travelled by all five (in km).**

- (a) 900
- (b) 600
- (c) 540
- (d) 660
- (e) 500

**Q122. Find the ratio of distance travelled by B and A together to the distance travelled by D and C together.**

- (a) 1:2
- (b) 1:3
- (c) 5:4
- (d) 1:5
- (e) 11:12

**Q123. Find the distance travelled by D and E together is what percentage more /less than that of B?**

- (a)  $170\frac{1}{3}\%$
- (b)  $280\frac{1}{3}\%$
- (c)  $233\frac{1}{3}\%$
- (d)  $133\frac{1}{3}\%$
- (e)  $210\frac{1}{3}\%$

**Q124. The distance travelled by B is increased by 20% and C by 25%. If the speed remains same, then find the time taken by B and C to cover the distance (in hours).**

- (a) 8.1
- (b) 7.1
- (c) 3.3
- (d) 8.6
- (e) 9.3

**Q125. Find the time taken by D and A to travel the respective distance is how much more/less than that of C and E (in hours).**

- (a) 3
- (b) 7
- (c) 4
- (d) 8
- (e) 9

**Q126.** A can do a work in \_\_\_\_ days, while B takes  $\frac{40}{3}$  days to complete  $\frac{5}{6}$ th of the same work. A and B together complete  $\frac{5}{8}$ th of the same work in 6 days. The efficiency of C is half of the efficiency of B, while C takes \_\_\_\_ days to complete 50% of the same work. What will come in the place of both blanks respectively.

- (a) 24, 32
- (b) 24, 16
- (c) 24, 28
- (d) 48, 32
- (e) 36, 16

**Q127.** A man invested Rs. x on compound interest at the rate of 20% p.a. for two years in scheme A and he received Rs. y as interest. The man invested Rs. (x + y) on simple interest at the rate of 12.5% p.a. for two years in scheme B. If total interest received by man from scheme B is Rs. 144, then find y (in Rs.).

- (a) 126
- (b) 156
- (c) 144
- (d) 176
- (e) 146

**Q128.** A shopkeeper marked up an article 60% above the cost price and discount allowed by the shopkeeper is half of the cost price. If shopkeeper still made a profit of Rs. 50, then find at what price shopkeeper should sell the article to make a profit of 24%.

- (a) 560
- (b) 720
- (c) 620
- (d) 600
- (e) 640

**Q129.** A and B entered into a business with investment of Rs. 6000 and Rs. 9000 respectively. After T months, A withdrew half of his initial investment. After two more months, B withdrew Rs. 4000 from his initial investment. At the end of a year, the ratio of profit share of A to that of B is 4 : 7, then find (T+2).

- (a) 3
- (b) 5
- (c) 4
- (d) 6
- (e) 8

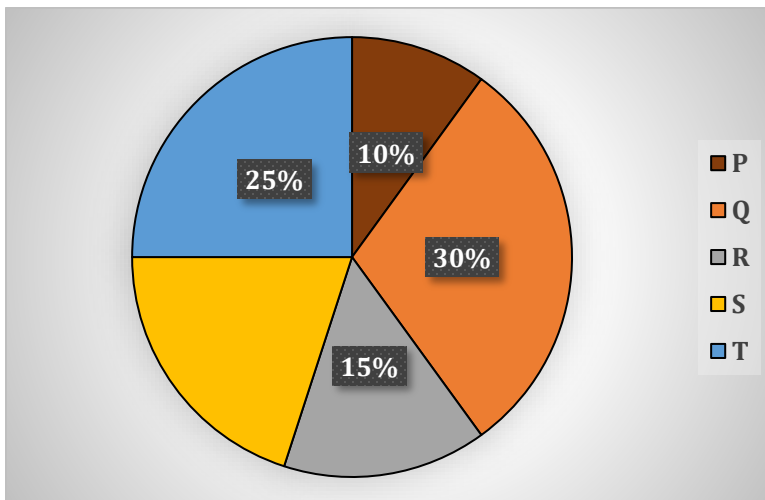
**Q130.** A vessel contains 240 liters mixture of water and milk in the ratio of 3 : 5 respectively. (y+10) liters of water added in the mixture, so the new ratio of milk to water becomes 5 : 4. If y liters of pure milk added in the initial mixture, then find the ratio of water to milk in resultant mixture.

- (a) 6 : 17
- (b) 9 : 16
- (c) 7 : 17
- (d) 8 : 17
- (e) 9 : 17

**Directions (131-135):** The pie chart given below shows the percentage distribution of total students (girls + boys) in five different schools (P, Q, R, S and T). Read the following pie chart carefully and answer the questions given below.

**Note:** (a) Number of girls is 50% less than that of boys in each school.

(b) Total number of students in school S is 240.



**Q131.** Find the ratio of total boys in schools S and T together to total girls in schools P and Q together.

- (a) 5:2
- (b) 9:4
- (c) 11:7
- (d) 7:4
- (e) 8:5

**Q132.** The average number of girls in schools P and R together is what percentage (approx.) of total number of students in school Q?

- (a) 21%
- (b) 4%
- (c) 17%
- (d) 9%
- (e) 14%

**Q133.** Total boys in school X are 25% more than total girls in school R. If the ratio of total students in school X to that in school T is 3:5, then find the total girls in school X is how much less than that in school Q?

- (a) 20
- (b) 18
- (c) 12
- (d) 15
- (e) 8

**Q134.** In school P, total students participated in two different games i.e., kabaddi and boxing. 60% of total boys participated in boxing and ratio of boys to girls participated in kabaddi is 4:3. Find the total students participated in boxing.

- (a) 64
- (b) 74
- (c) 56
- (d) 45
- (e) 90

**Q135.** Total girls in schools P, R and T together are what percentage less than the total boys in all the schools?

- (a) 60%
- (b) 25%
- (c) 75%
- (d) 45%
- (e) 90%

**Q136.** A sphere is melted to form 84 identical cylinders. If radius of each cylindrical is  $\frac{1}{3}rd$  of the radius of sphere and height of each cylinder is 3 cm, then find radius of sphere.

- (a) 21cm
- (b) 14cm
- (c) 35cm
- (d) 49cm
- (e) 42cm

**Q137.** The ratio of present age of A and age of B after three years is 8 : 11 respectively. Four years hence, the sum of age of A and B will be 62 years. Find the difference between present age of A and B.

- (a) 2 years
- (b) 4 years
- (c) 6 years
- (d) 3 years
- (e) 5 years

**Q138.** A man spends 30% of his income on food, 25% on rent and 10% on transport. From the remaining income 60% he distributed between his two sons Z and Y in the ratio of 2 : 5 respectively. If remaining income he saves and the difference between saving of the man & amount received by Y is Rs. 600, then find the amount (in Rs.) spend by him on transport.

- (a) 3000
- (b) 4000
- (c) 6000
- (d) 4500
- (e) 5000

**Q139. Two trains P and Q started their respective journey from point X & Y. Speed of train Q is 22 km/hr more than that of train P and distance between point X & Y is 510 km. If both trains meet in 5 hours 40 minutes, then find the speed of trains P and Q respectively (in km/hr).**

- (a) 36, 58
- (b) 28, 50
- (c) 46, 68
- (d) 34, 56
- (e) 18, 40

**Q140. X, Y and Z alone can complete a work in 32 days, 28 days & 40 days respectively. X and Z together started the work and after 15 days, they left the work. If the remaining work is completed by Y and P in  $\frac{7}{2}$  days, then find the number of days taken by P to complete 25% of the same work.**

- (a) 28
- (b) 20
- (c) 12
- (d) 18
- (e) 25

**Q141. Which bank has launched 'eSvarna,' the country's first corporate credit card on the RuPay network, with integrated UPI functionality? (December 2023)**

- (a) HDFC Bank
- (b) ICICI Bank
- (c) IndusInd Bank
- (d) Axis Bank
- (e) State Bank of India

**Q142. The Eighth Schedule of the Indian Constitution is related to which of the following aspects?**

- (a) Fundamental Rights
- (b) Directive Principles of State Policy
- (c) Distribution of Powers between Centre and States
- (d) Official Languages of India
- (e) Emergency Provisions

**Q143. Which organization announced the introduction of the Carbon Border Adjustment Mechanism (CBAM) in its transitional phase from October 2023, imposing a carbon tax on imports produced through non-environmentally sustainable processes?**

- (a) World Trade Organization (WTO)
- (b) International Monetary Fund (IMF)
- (c) United Nations (UN)
- (d) European Union (EU)
- (e) G20

**Q144. What is the lock-in period for investments made in Equity Linked Savings Scheme (ELSS)?**

- (a) 1 year
- (b) 2 years
- (c) 3 years
- (d) 5 years
- (e) 10 years

**Q145. Under Section 45ZB of the RBI Act, 1934, as amended in 2016, how many members are there in the Monetary Policy Committee (MPC)?**

- (a) 4 members
- (b) 5 members
- (c) 6 members
- (d) 7 members
- (e) 8 members

**Q146. Which of the following countries is not a member of the South Asian Association for Regional Cooperation (SAARC)?**

- (a) India
- (b) Nepal
- (c) Bhutan
- (d) China
- (e) Sri Lanka

**Q147. India conducted the 2nd edition of the Joint Special Forces exercise named 'Cyclone' from January 22 to February 1, 2024, with which of the following countries?**

- (a) Saudi Arabia
- (b) Egypt
- (c) Oman
- (d) UAE
- (e) Jordan

**Q148. In which state has the government announced the establishment of the world's first melanistic tiger safari, covering an area of 200 hectares? (January 2024)**

- (a) Madhya Pradesh
- (b) Karnataka
- (c) Maharashtra
- (d) Odisha
- (e) West Bengal

**Q149. What is the total number of alphanumeric characters in an International Securities Identification Number (ISIN) code?**

- (a) 10
- (b) 11
- (c) 12
- (d) 13
- (e) 14

**Q150. Which Indian tennis player became the oldest Grand Slam winner after claiming the Australian Open 2024 title with Matthew Ebden? (January 2024)**

- (a) Leander Paes
- (b) Yuki Bhambri
- (c) Somdev Devvarman
- (d) Rohan Bopanna
- (e) Ramkumar Ramanathan

**Q151. Which insurance company has tied up with the Board of Control for Cricket in India (BCCI) as its official partner for the 2023-2026 domestic and international season? (September 2023)**

- (a) LIC
- (b) HDFC Life
- (c) SBI Life
- (d) ICICI Prudential
- (e) Max Life

**Q152. What rate of GST has been recommended by the GST Council for online gaming, casinos, and horse racing during the 50th GST Council meeting on 11th July 2023?**

- (a) 5%
- (b) 12%
- (c) 18%
- (d) 28%
- (e) 30%

**Q153. How far from Earth has ISRO placed the Aditya-L1 spacecraft in a halo orbit around the Lagrangian point (L1) as part of India's first solar mission, launched on September 2, 2023?**

- (a) 500,000 km
- (b) 1 million km
- (c) 1.5 million km
- (d) 2 million km
- (e) 2.5 million km

**Q154. According to the Snow Leopard Population Assessment in India (SPAII) report, how many snow leopards are estimated to be in the wild in India, as of the four-year long estimation exercise concluded in 2023? (January 2024)**

- (a) 477
- (b) 500
- (c) 718
- (d) 824
- (e) 925

**Q155. In which year did Mahatma Gandhi return to India from South Africa after living there for over two decades?**

- (a) 1905
- (b) 1910
- (c) 1915
- (d) 1920
- (e) 1925

**Q156. What is the economic situation called when an economy experiences slow growth, high unemployment, and rising prices simultaneously?**

- (a) Recession
- (b) Inflation
- (c) Deflation
- (d) Stagflation
- (e) Hyperinflation

**Q157. Under which schedule are banks in India classified as "Scheduled Banks," allowing them access to certain privileges and banking facilities provided by the Reserve Bank of India?**

- (a) Schedule II of the Banking Regulation Act, 1949
- (b) Schedule I of the Reserve Bank of India Act, 1934
- (c) Schedule II of the Reserve Bank of India Act, 1934
- (d) Schedule I of the Banking Regulation Act, 1949
- (e) Schedule III of the Reserve Bank of India Act, 1934

**Q158. As of 2023, how many member countries are part of the Non-Aligned Movement (NAM), which was established to promote neutrality during the Cold War?**

- (a) 100
- (b) 115
- (c) 120
- (d) 130
- (e) 150

**Q159. What is the KAVACH system, which has been developed indigenously by the Research Design and Standards Organisation (RDSO) in collaboration with the Indian industry?**

- (a) An Automatic Train Protection system
- (b) A disaster management system
- (c) A missile defense system
- (d) A cyber security system
- (e) A satellite navigation system

**Q160. Which bank has partnered with the Tamil Nadu government-backed StartupTN to support early-stage startups in Tier II and III towns and foster entrepreneurship in the state? (January 2024)**

- (a) Federal Bank
- (b) IDFC FIRST Bank
- (c) DBS Bank India
- (d) RBL Bank
- (e) Karur Vysya Bank

**Q161. Which insurance company is planning to acquire up to 10 percent equity stake in a company promoted by the National Housing Bank (NHB) that focuses on residential mortgage-backed securities (RMBS)? (January 2024)**

- (a) ICICI Prudential Life
- (b) HDFC Life Insurance
- (c) Max Life Insurance
- (d) Life Insurance Corporation of India (LIC)
- (e) SBI Life Insurance

**Q162. The Gujarat government has signed a Memorandum of Understanding (MoU) with which defence public sector undertaking to build tourist submarines for ferrying visitors to Lord Krishna's Dwarka city?**

- (a) Bharat Dynamics Limited
- (b) Hindustan Aeronautics Limited
- (c) Bharat Electronics Limited
- (d) Garden Reach Shipbuilders & Engineers
- (e) Mazagon Dock Shipbuilders Limited

**Q163. Consider the following statements regarding the gross GST revenue collection for January 2024:**

1. The gross GST revenue collected in January 2024 is ₹1,72,129 crore.
2. The GST collection in January 2024 showed a 10.4% year-on-year growth compared to January 2023.
3. The cumulative gross GST collection for the April 2023-January 2024 period witnessed 11.6% year-on-year growth.

Which of the above statements is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Only 1 and 3
- (d) Only 2 and 3
- (e) All of the above

**Q164. According to RBI's economic activity index (EAI), what is the estimated GDP growth for Q3 (October-December) of FY24?**

- (a) 6.0%
- (b) 6.5%
- (c) 7.0%
- (d) 7.5%
- (e) 8.0%

**Q165. For the year 2024, how many women have been included in the list of recipients for the Padma Awards?**

- (a) 20
- (b) 25
- (c) 30
- (d) 35
- (e) 40

**Q166. Which of the following Northeast Indian states does not share a border with Myanmar?**

- (a) Arunachal Pradesh
- (b) Nagaland
- (c) Mizoram
- (d) Manipur
- (e) Meghalaya

**Q167. Which country is the largest producer of crude steel in the world?**

- (a) India
- (b) Japan
- (c) United States
- (d) Russia
- (e) China

**Q168. Which insurance company has launched a tailored protection solution specifically designed for salaried professionals? (December 2023)**

- (a) HDFC Life Insurance
- (b) SBI Life Insurance
- (c) Aditya Birla Sun Life Insurance
- (d) ICICI Prudential Life Insurance
- (e) Max Life Insurance

**Q169. As per RBI's guidelines, for how many days are AD Category-I banks allowed to permit Qualified Jewellers to remit advance payment for the import of silver through International Bullion Exchange IFSC Ltd (IIBX)? (November 2024)**

- (a) 7 days
- (b) 9 days
- (c) 11 days
- (d) 15 days
- (e) 30 days

**Q170. Which state's tableau showcasing women empowerment, handicrafts, and handloom bagged the first prize during the 75th Republic Day parade in India?**

- (a) Madhya Pradesh
- (b) Haryana
- (c) Odisha
- (d) Maharashtra
- (e) Tamil Nadu

**Q171. The 13th Ministerial Conference (MC13) of the World Trade Organization (WTO), held from 26 February to 2 March 2024, took place in which city?**

- (a) Geneva, Switzerland
- (b) New Delhi, India
- (c) Brussels, Belgium
- (d) Paris, France
- (e) Abu Dhabi, UAE

**Q172. In the 18th Brand Finance Global 500 2024 Report, \_\_\_\_\_ has been ranked as India's strongest brands at 17th place in the list of world's strongest brand, while \_\_\_\_\_ has topped the list globally, securing the 1st position.**

- (a) LIC, YouTube
- (b) SBI, Google
- (c) Jio, WeChat
- (d) Airtel, Coca-Cola
- (e) Reliance, Deloitte

**Q173. As per the First Advance Estimates (FAE) released by the National Statistical Office (NSO), what is the projected growth rate of the Indian economy for FY 2023-24? (January 2024)**

- (a) 6.8%
- (b) 7.0%
- (c) 7.2%
- (d) 7.3%
- (e) 7.5%

**Q174. Which city in Brazil is set to host the G20 Summit in November 2024?**

- (a) São Paulo
- (b) Brasília
- (c) Rio de Janeiro
- (d) Salvador
- (e) Fortaleza

**Q175. These are rupee-denominated bonds issued in offshore markets by Indian entities to raise capital in foreign currency, where the investor bears the currency risk instead of the issuer. What is this type of bond called?**

- (a) Samurai Bonds
- (b) Foreign Currency Convertible Bonds (FCCBs)
- (c) Masala Bonds
- (d) Yankee Bonds
- (e) Global Depository Receipts (GDRs)

**Q176. The I2U2 Group is a strategic partnership focused on enhancing cooperation in areas such as energy, technology, and regional security. Which of the following countries is NOT a member of the I2U2 Group?**

- (a) India
- (b) Israel
- (c) United Arab Emirates
- (d) United States
- (e) United Kingdom

**Q177. What is the validity period of FASTag during which the tag remains functional before requiring renewal or replacement?**

- (a) 2 years
- (b) 3 years
- (c) 4 years
- (d) 5 years
- (e) 6 years

**Q178. The Reserve Bank of India (RBI) has granted permission to Life Insurance Corporation of India (LIC) to increase its stake in HDFC Bank up to \_\_\_\_\_%, with a deadline of January 24, 2025, to reach this approved level. (January 2024)**

- (a) 7.49%
- (b) 8.99%
- (c) 9.99%
- (d) 10.49%
- (e) 11.99%

**Q179. In the Swachh Survekshan Awards 2023, which city secured the third position in the cleanest cities category after Surat and Indore? (January 2024)**

- (a) Pune
- (b) Navi Mumbai
- (c) Bhopal
- (d) Ahmedabad
- (e) Jaipur

**Q180. On the eve of World Wetlands Day 2024, India added five more wetlands as Ramsar sites, increasing the total number of Ramsar sites in the country to \_\_\_\_.**

- (a) 75
- (b) 76
- (c) 78
- (d) 80
- (e) 85

**Q181. Which of the following options represents a valid storage device?**

- (a) CPU, RAM
- (b) Hard disk, Cloud storage
- (c) Printer, Scanner
- (d) Mouse, Keyboard
- (e) Web browser, Operating system

**Q182. In MS-Excel 2016, which shortcut key is used to insert a new worksheet?**

- (a) Shift + F11
- (b) Ctrl + F11
- (c) Alt + F11
- (d) F12
- (e) Ctrl + Shift + F11

**Q183. Which symbol is used to represent a decision in a flowchart?**

- (a) Rectangle
- (b) Oval
- (c) Diamond
- (d) Parallelogram
- (e) Arrow

**Q184. What is created when the user presses the Ctrl + N keys in MS-Word?**

- (a) A new document
- (b) A new table
- (c) A new page
- (d) A new folder
- (e) A new chart

**Q185. WAN stands for \_\_\_\_.**

- (a) Wireless Access Node
- (b) Web Area Network
- (c) Wide Area Network
- (d) Wired Active Network
- (e) Wide Access Node

**Q186. When you enter text data into a cell of an MS-Excel worksheet, its horizontal alignment is \_\_\_\_ by default.**

- (a) Left
- (b) Center
- (c) Right
- (d) Justify
- (e) None of the above

**Q187. What does an external port typically connect to in a computer system?**

- (a) Internal components like hard drives
- (b) Other computers in a network
- (c) External devices like keyboards, printers, and USB drives
- (d) Electrical power outlets
- (e) Wireless devices like Bluetooth speakers

**Q188. Which of the following statements is incorrect about Excel formulas?**

- (a) Formulas begin with an equal sign (=).
- (b) A formula can include multiple operators like +, -, \*, and /.
- (c) Formulas can reference other cells and use functions.
- (d) Excel formulas can return multiple results in the same cell.
- (e) You can use parentheses to control the order of operations.

**Q189. How many worksheets are present in a Workbook (2021) by default?**

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) 5

**Q190. What are the BASE properties of DBMS Transactions?**

- (a) Basic, Available, Soft state, Eventual consistency
- (b) Basic, Atomicity, Soft state, Isolation
- (c) Binary, Atomicity, Stable state, Efficiency
- (d) Binary, Available, Soft state, Durability
- (e) None of the above

**Q191. Which part of the operating system manages the file system?**

- (a) Kernel
- (b) Scheduler
- (c) Shell
- (d) Loader
- (e) Cache

**Q192. Which of the following is a closed-source operating system?**

- (a) Linux
- (b) Android
- (c) iOS
- (d) Ubuntu
- (e) FreeBSD

**Q193. Which of the following is not a type of malware?**

- (a) Virus
- (b) Spyware
- (c) Adware
- (d) Compiler
- (e) Ransomware

**Q194. Which of the following is not a type of text formatting?**

- (a) Bold
- (b) Underline
- (c) Strikethrough
- (d) Italics
- (e) Margins

**Q195. Which of the following is not a paragraph alignment style in MS-Word?**

- (a) Left
- (b) Center
- (c) Justify
- (d) Subscript
- (e) Right

**Q196. Which is not an output device?**

- (a) Monitor
- (b) Printer
- (c) Speakers
- (d) Barcode scanner
- (e) Plotter

**Q197. An example of Fourth Generation of Computers is:**

- (a) Vacuum tubes
- (b) Integrated circuits
- (c) Transistors
- (d) Microprocessors
- (e) Artificial Intelligence

**Q198. Which OS is developed by the famous Microsoft Corporation?**

- (a) Android
- (b) macOS
- (c) Linux
- (d) Windows
- (e) UNIX

**Q199. Which of the following are advantages of SSD as a storage media?**

- (a) SSDs are faster than HDDs for data retrieval and storage
- (b) SSDs are cheaper than magnetic storage
- (c) SSDs have a shorter lifespan than traditional HDDs
- (d) SSDs are more prone to mechanical failure
- (e) None of the above

**Q200. Which is the keyboard shortcut to decrease font size in Microsoft Word?**

- (a) Ctrl + Shift + (
- (b) Ctrl + <
- (c) Ctrl + [
- (d) Ctrl + Shift + ]
- (e) Ctrl + ]

## SOLUTIONS

### S1. Ans.(a)

**Sol.** The correct choice for the answer is option (a): The symptoms of OCD resemble our daily habits hence people get bemused in detection.

The answer is in the first paragraph where it says “You must be able to detect OCD correctly, as people often confuse it with their normal habits.”

Hence, option (a) is the correct choice for the answer.

### S2. Ans.(b)

**Sol.** The correct choice for the answer is option (b): There are a lot of negative notions about OCD in society that can prevent the person suffering from it from seeking help.

The answer can be found in the second paragraph where it is mentioned “Social stigma is a big issue, which is why many patients shy away from seeking medical help.”

Hence, option (b) is the correct choice for the answer.

### S3. Ans.(c)

**Sol.** The correct choice for the answer is option (c): This is a type of disorder that is neurological in nature, which needs more recovery time.

It is mentioned in the first line of the third paragraph where it is said “OCD is a neurological disorder, which is why the treatment might take longer as compared to other diseases.”

Hence, option (c) is the correct choice for the answer.

### S4. Ans.(c)

**Sol.** The correct choice for the answer is option (c): Activities like taking up newer hobbies (like reading, playing a sport, cooking, etc.) can help these individuals to divert their brains from the obsessive-compulsive behaviours.

Option (c) is not mentioned anywhere in the passage, while option (a) is mentioned in the last paragraph: In rare cases, when treatment and medication do not make much difference, certain devices might be used that alter electrical activity in a specific area of your brain. It is called Neuromodulation.

Option (b) can be found in the same paragraph where it says “The simplest of all methods, which incorporates yoga, exercising, meditation and chanting might also be helpful in mild to moderate cases of OCD.”

Hence, option (c) is the correct choice for the answer.

### S5. Ans.(a)

**Sol.** The correct choice for the answer is option (a): The author aims to spread awareness about the OCD disorder so that it can be taken seriously and then goes onto suggest different remedies to it which can be opted for after the diagnosis.

As we read the passage, we get to know that the author’s intentions are to educate the reader about OCD as a mental illness and to dispel any misconceptions around it so people can come forward and seek help without any shame. Further on, the passage suggests different ways through which it can be treated but only after a consultation with a professional.

Hence, option (a) is the correct choice for the answer.

**S6. Ans.(b)**

**Sol.** The correct choice for the answer is option (b): Only II.

The statement is in the third paragraph where it is mentioned "In Psychotherapy, your doctor will place you in a situation designed to create tension or resolve compulsions. You will learn to reduce your OCD thoughts or actions through this method."

None of the other statements are mentioned anywhere in the passage.

Hence, option (b) is the correct choice for the answer.

**S7. Ans.(c)**

**Sol.** Recognize means to identify (someone or something) from having encountered them before; know again. This meaning is similar to that of detects.

Hence, recognize is the synonym of detect.

Exploit means use in an unfair or selfish way; make full use of and derive benefit from.

Obscure means not discovered or known about; uncertain.

Symbolic means serving as a visible symbol for something abstract.

**S8. Ans.(b)**

**Sol.** Abolish means to end an activity, custom, etc. completely or by law or official action.

This meaning is opposite of create, making it the antonym of create.

Cryptic means having a meaning that is mysterious or obscure.

Whimsical means unusual in a playful or amusing way; not serious.

Remorse means deep and painful regret for wrongdoing.

**S9. Ans.(a)**

**Sol.** The correct choice for the answer is option (a): behind.

The correct phrase is 'behind the disorder'. The sentence means that there can be no reasons found for the development of OCD in people.

**S10. Ans.(c)**

**Sol.** The concerned sentence is mentioning the Indus Valley Civilization which was a cultural and political entity that thrived in the northern region of the Indian subcontinent. Therefore, the most suitable word for the blank is 'flourished'.

(a) reigned means hold royal office; rule as monarch.

(b) enhanced means intensify, increase, or further improve the quality, value, or extent of.

(c) flourished means grow or develop in a healthy or vigorous way, especially as the result of a particularly congenial environment.

(d) frittered means waste time, money, or energy on trifling matters.

(e) shattered means very upset.

**S11. Ans.(b)**

**Sol.** The concerned sentence is mentioning that name Indus Valley was derived from its location in the valley of the Indus River. Therefore, the most suitable word for the blank is 'derives'.

(a) concludes means bring or come to an end.

(b) derives means obtain something from (a specified source).

(c) subsumes means include or absorb (something) in something else.

(d) dispersed means distribute or spread over a wide area.

(e) abducts means take (someone) away illegally by force or deception; kidnap.

**S12. Ans.(e)**

**Sol.** The concerned sentence is mentioning the geographical location of the Sarasvati River. Therefore, the most suitable word for the blank is 'adjacent'.

- (a) eminence means fame or acknowledged superiority within a particular sphere.
- (b) falter means lose strength or momentum.
- (c) onset means the beginning of something, especially something unpleasant.
- (d) augur means portend a good or bad outcome.
- (e) adjacent means next to or adjoining something else.

**S13. Ans.(b)**

**Sol.** The concerned sentence is mentioning that the ancient city of Harappa was the first city found in the modern era. Therefore, the most suitable word for the blank is 'found'.

- (a) provoke means stimulate or give rise to (a reaction or emotion, typically a strong or unwelcome one) in someone
- (b) found means having been discovered by chance or unexpectedly.
- (c) assemble means gather together in one place for a common purpose.
- (d) incept means begin, commence, undertake.
- (e) invent means create or design (something that has not existed before); be the originator of.

**S14. Ans.(d)**

**Sol.** The concerned sentence is mentioning that none of the names derive from any ancient texts because, although scholars generally believe the people of this civilization developed a writing system it has not yet been deciphered.

- (a) reckoned means establish by calculation.
- (b) faltered means lose strength or momentum.
- (c) prospected means search for; seek.
- (d) deciphered means convert (a text written in code, or a coded signal) into normal language
- (e) endured means suffer (something painful or difficult) patiently.

**S15. Ans.(d)**

**Sol.** The correct replacement is option (d). As the given sentence is in simple present tense 'Subject+ singular/plural verb'.

**S16. Ans.(b)**

**Sol.** The correct replacement is option (b). 'Each of the' is followed by plural noun and singular verb.

**S17. Ans.(d)**

**Sol.** The correct replacement is option (d). 'To' shouldn't be used. The correct structure of sentence should be, "Let+ Subject+ V1'.

**S18. Ans.(e)**

**Sol.** The given sentence is error-free.

**S19. Ans.(c)**

**Sol.** The given highlighted phrase needs to be replaced. When we use 'not only.....but also' we always use verb according to second noun (countries). Hence, verb 'faces' should be plural. The correct preposition to be used is 'of'.

**S20. Ans.(d)**

**Sol.** 'Vacant' means 'not occupied; empty' and its usage is correct in statement (i) and statement (ii).

**S21. Ans.(a)**

**Sol.** 'Supervise' means 'keep watch over (someone) in the interest of their or others' security' and its usage is correct only in statement (ii).

**S22. Ans.(c)**

**Sol.** The word 'execute' means 'put (a plan, order, or course of action) into effect' and sentence (ii) and sentence (iii) have its correct usage.

**S23. Ans.(d)**

**Sol.** 'Fuming' means 'feeling, showing, or expressing great anger' and it has been used correctly in sentence (i) and sentence (ii).

**S24. Ans.(b)**

**Sol.** Coherent statement can be formed by joining phrases (A)-(F).

Thus, the statement will be, "Drastic changes in climate patterns have adversely impacted India's coffee production and the quality of the crop. "

**S25. Ans.(a)**

**Sol.** Coherent statements can be formed by joining phrases (A)-(F) and (C)-(D).

Thus, the statements will be, "Despite having varieties of mustard, India continues to be a net oil importer due to poor yields" and "Since the rich command a disproportionately large share of country's income, getting them wrong is a big problem"

**S26. Ans.(d)**

**Sol.** Coherent statement can be formed by joining phrases (B)-(E).

Thus, the statement will be, "One question has been what responsibility richer countries owe towards poorer nations particularly when it comes to ensuring the equitable distribution of a vaccine."

**S27. Ans.(c)**

**Sol.** Coherent statements can be formed by joining phrases (B)-(F) and (A)-(E).

Thus, the statements will be, "Once you've submitted your application and assessment, we'll send an email to confirm we've received it." And "The US opened a probe into the partnership to determine whether company's use of medical records breaks privacy law"

**S28. Ans.(e)**

**Sol.** The sentence is grammatically and contextually correct as it stands. The phrase "putting boots on the ground and even drones in the sky" is coherent, and there are no errors in any part of the sentence.

**S29. Ans.(b)**

**Sol.** The error is in part (C) of the sentence. The use of 'been' is wrong since all the other parts of the sentence is in present tense whereas 'been' is a past form of verb. So, 'being' should come in place of it. Hence, option (b) is the correct answer choice.

**S30. Ans.(e)**

**Sol.** There is no error in any part of the sentence. Option (e) is, thus, the most appropriate choice.

**S31. Ans.(b)**

**Sol.** The error is in part (A) of the sentence. The use of 'for' is wrong because it is used to show a period of time, in the past, present or future. The word 'since' is used to refer to a time (an action that begun in the past and is still continuing)

**S32. Ans.(c)**

**Sol.** The error is in part (D) of the sentence. The use of 'triangles' with "a" is wrong. Hence, option (c) is the correct answer choice.

**S33. Ans.(b)**

**Sol.** The erroneous part is (B). Here 'have' should be replaced with 'has' because the expression 'The number' is followed by a singular verb while the expression 'A number' is followed by a plural verb

**S34. Ans.(a)**

**Sol.** The erroneous part is (A). Here 'he had' will be replaced by 'had he' after 'Hardly'. If hardly, scarcely, barely and no sooner are in the initial position, the subject and auxiliary are inverted.

**S35. Ans.(b)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

**S36. Ans.(c)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

**S37. Ans.(b)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

**S38. Ans.(c)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

**S39. Ans.(d)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

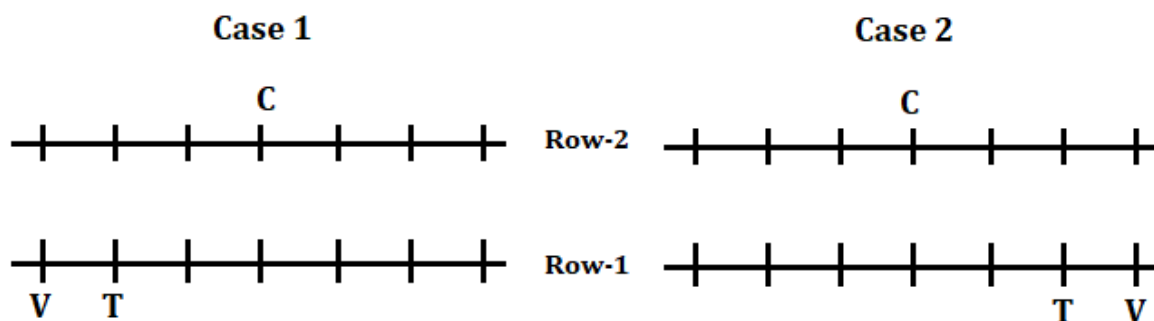
**S40. Ans.(c)**

**Sol.** By going through the given sentences we can confirm that *sentence B* is incoherent here as it does not go with the flow of the paragraph and convey incomplete information.

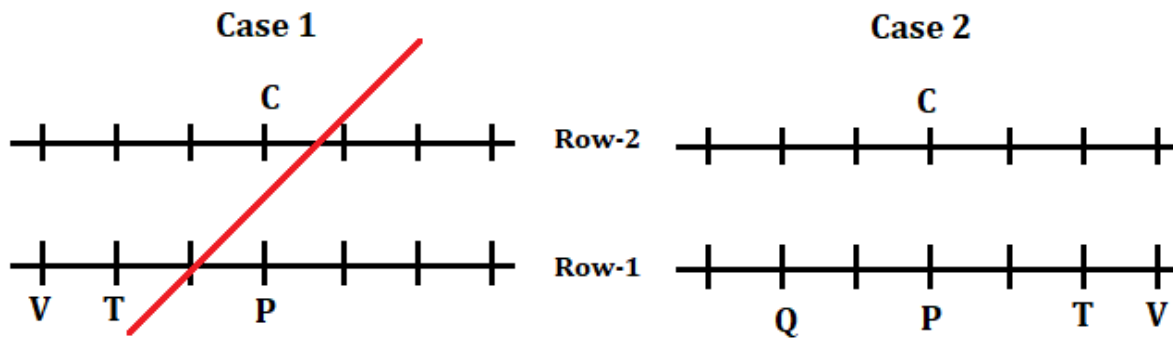
**Sentence E** is the clear initiator of the paragraph as it introduces the theme of the passage i.e., economic development of India in early 1950's. **Sentence D** just comes after sentence E as it is in continuation of the latter. **Sentence A** is the third statement here as it mentions the actual strategy adopted by the leaders, which is then further proceeded in **sentence F**. **Sentence C** is the last statement as it explains the reason behind choosing industrialization as the mode of development. Hence the correct order of arrangement will be **ED AFC**.

**Directions (41-45):**

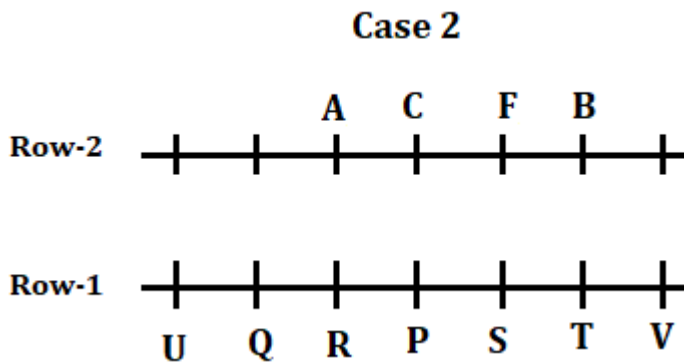
From the given statements, T is the only immediate neighbour of V. Here we have 2 possible cases. C sits two places away from the one who faces to T.



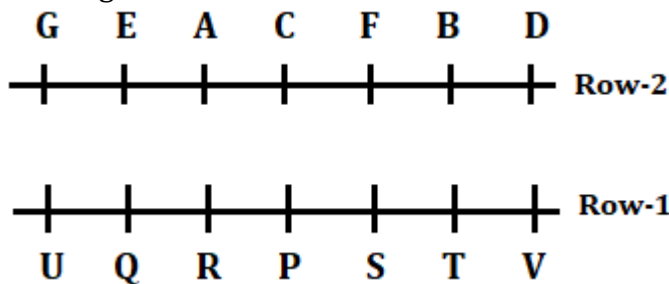
The number of persons sit to the right of C is same as the number of persons sit to the left of P. Q sits 2<sup>nd</sup> to the left of P. Here Case 1 is ruled out now because no place left for Q.



B faces to the one who sits 3<sup>rd</sup> to the right of R. One person sits between A and F and both of them do not sit at the extreme ends. U faces to the one who sits 2<sup>nd</sup> to the right of A.



E sits right of D but not sit at the extreme ends. So, the final arrangement is-



**S41. Ans.(a)**

**Sol.** Five persons sit to the right of the one Q who faces to E

**S42. Ans.(b)**

**Sol.** After the rearrangement – Q, R and V remain unchanged

**S43. Ans.(c)**

**Sol.** Q faces to E

**S44. Ans.(e)**

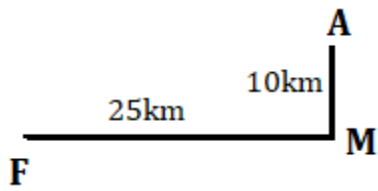
**Sol.** All the given statements are true

**S45. Ans.(e)**

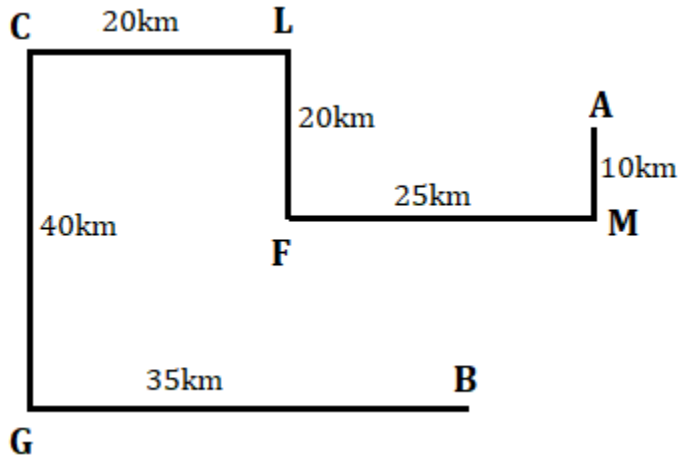
**Sol.** D sits at extreme ends while other sit in the middle of the row.

**Solutions (46-48):**

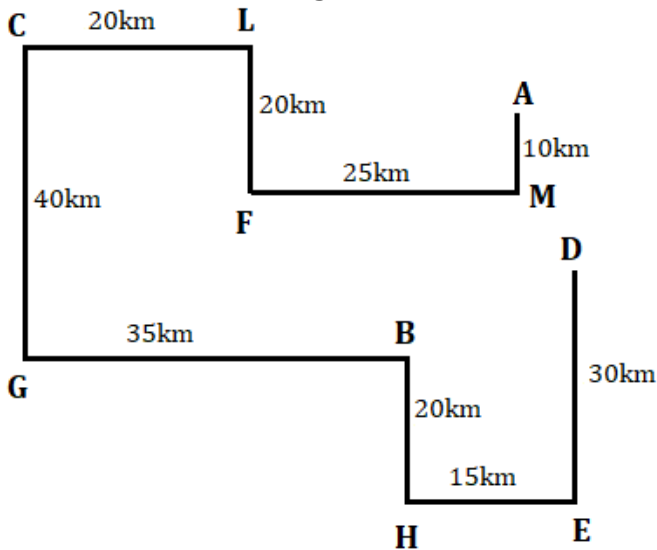
From the given statements, Swimmer “Ranjan” started to swim from river A. He swims 10km in the south and reach at river M. He takes his right turn and swim 25km to reach at river F.



He takes another right turn and swim 20km to reach at river L. Now he takes consecutive three left turns and swim 20km, 40km and 35 km and reach at river C, G and B respectively.



Now Ranjan takes his right and swim 20km and reach at river H. After that he takes two consecutive left turn and swim 15km and 30km to reach at river E and river D respectively. So, after combining all the statements the final diagram is-



**S46. Ans.(b)**

**Sol.**  $(20+40+35) \text{ km} = 95\text{km}$

**S47. Ans.(a)**

**Sol.** River A is in North-west with respect to river D

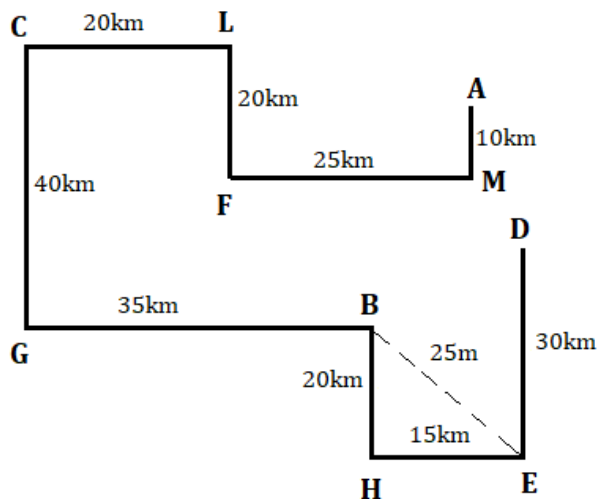
**S48. Ans.(c)**

**Sol.** River E is in 25km, south-east with respect to river B

$$(BE)^2 = (BH)^2 + (HE)^2$$

$$BE = \sqrt{20^2 + 15^2}$$

BE = 25km



### Solutions (49-53):

From the given statements, X joins conference two persons before the one who joins in Shillong but not on an even date. From this condition we get 2 possible cases.

| Month     | Date | Case 1 |          | Case 2 |          |
|-----------|------|--------|----------|--------|----------|
|           |      | Person | City     | Person | City     |
| March     | 12   |        |          |        |          |
|           | 29   | X      |          |        |          |
| May       | 12   |        |          |        |          |
|           | 29   |        | Shillong | X      |          |
| September | 12   |        |          |        |          |
|           | 29   |        |          |        | Shillong |

One person joins conference between X and U who joins in Noida. Here Case 1 is ruled out now. Y does not join just after and just before of X and U.

| Month     | Date | Case 1 |          | Case 2 |          |
|-----------|------|--------|----------|--------|----------|
|           |      | Person | City     | Person | City     |
| March     | 12   |        |          |        |          |
|           | 29   | X      |          | U      | Noida    |
| May       | 12   |        |          |        |          |
|           | 29   |        | Shillong | X      |          |
| September | 12   |        |          |        |          |
|           | 29   |        |          | Y      | Shillong |

V joins just after the one who joins in Shimla. V neither joins in Chandigarh nor Gangtok.

| Month     | Date | Case 2 |                        |
|-----------|------|--------|------------------------|
|           |      | Person | City                   |
| March     | 12   |        | Chandigarh/<br>Gangtok |
|           | 29   | U      | Noida                  |
| May       | 12   |        | Chandigarh/<br>Gangtok |
|           | 29   | X      | Shimla                 |
| September | 12   | V      |                        |
|           | 29   | Y      | Shillong               |

W joins before Z but not join in Chandigarh. More than two persons join between the ones who join in Bhopal and Gangtok. So, the final arrangement is-

| Month     | Date | Person | City       |
|-----------|------|--------|------------|
| March     | 12   | W      | Gangtok    |
|           | 29   | U      | Noida      |
| May       | 12   | Z      | Chandigarh |
|           | 29   | X      | Shimla     |
| September | 12   | V      | Bhopal     |
|           | 29   | Y      | Shillong   |

**S49. Ans.(c)**

**Sol.** Three persons join conference between U and the one who joins just after V (Y)

**S50. Ans.(c)**

**Sol.** The number of persons join between the ones who join in Noida and Chandigarh as same as between X and V

**S51. Ans.(a)**

**Sol.** Z joins on even numbered date in Chandigarh

**S52. Ans.(d)**

**Sol.** Z and the one who joins in Gangtok join the conference in the month which having more than 30 days

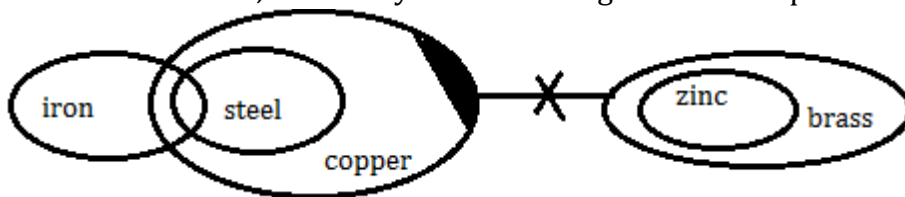
**S53. Ans.(e)**

**Sol.** After rearrangement –

| Month     | Date | Person | Person |
|-----------|------|--------|--------|
| March     | 12   | W      | Z      |
|           | 29   | U      | Y      |
| May       | 12   | Z      | X      |
|           | 29   | X      | W      |
| September | 12   | V      | V      |
|           | 29   | Y      | U      |

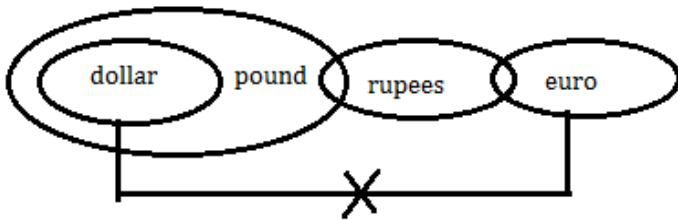
**S54. Ans.(c)**

**Sol.** Conclusion c follows because zinc can only relate with brass and there is no relation between zinc and other elements. So, that's why all brass being iron is not a possibility follows.



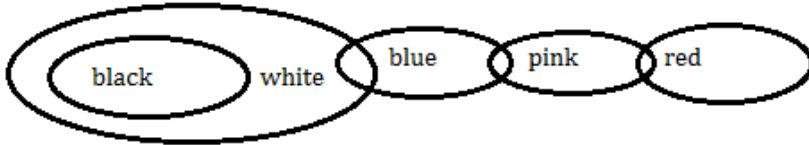
**S55. Ans.(b)**

**Sol.** Conclusion b follows as there is we know all dollar is pound and No dollar is euro. So, all pound can never be euro definitely follows.



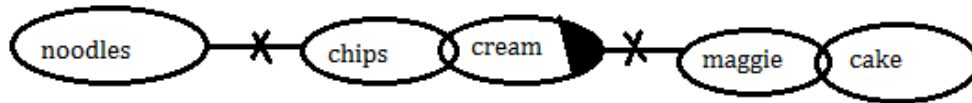
S56. Ans.(d)

Sol.



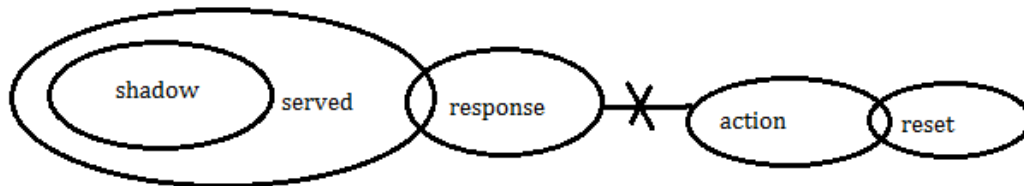
S57. Ans.(c)

Sol. Conclusion c follows as there is no direct relation between chips and cake so its possibility relation exist therefore some chips can be cake definitely follows.



S58. Ans.(e)

Sol. Conclusion e follows because shadow can only relate with served and there is no relation between shadow and other elements. Therefore, no shadow is response definitely follows.

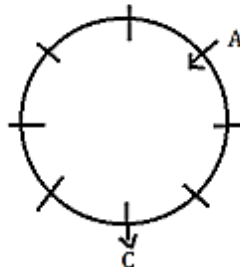
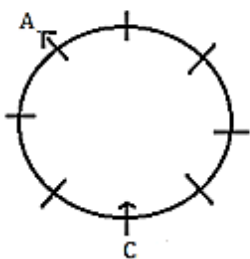


**Solutions (59-63):**

From the given statements, A sits third to the left of C. Both are facing opposite **Solutions** to each other. There are 2 possible cases.

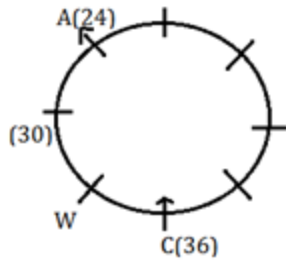
Case 1:

Case 2:

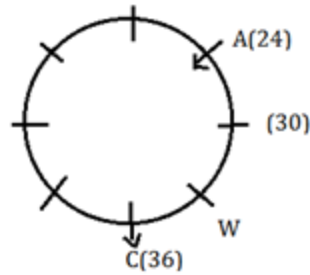


C is 12 years older than A, so there is only one possibility A is 24 years old and C is 36 years old. W sits second to the left of A and age difference between immediate neighbors of W is 6 years.

Case 1:

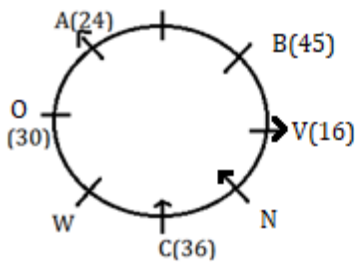


Case 2:

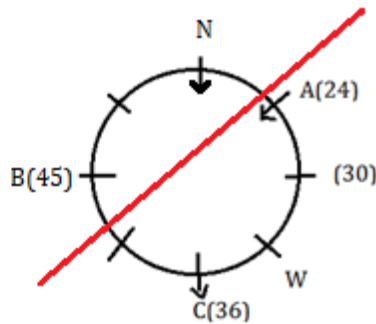


B whose age is 45 years sits second to the right of N who is facing towards the center. B is not an immediate neighbor of A and C. O sits opposite to V who is 16 years old and facing opposite to the center. Here case 2 is ruled out now.

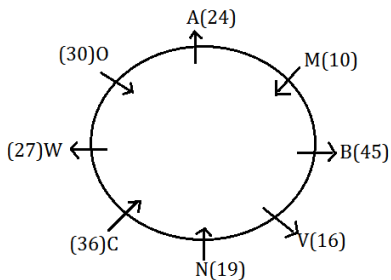
Case 1:



Case 2:



N is 9 years older than M who is facing towards the center. So, N's age is 19 and M's age is 10 years. O faces same **Solutions** as N but opposite to W. So, the final solution is-



**S59. Ans.(c)**

**S60. Ans.(b)**

**S61. Ans.(c)**

**S62. Ans.(d)**

**S63. Ans.(a)**

**S64. Ans.(c)** Statement (I)-True-Reason: As tax has not been revised, it may be the condition that people are not able to afford high priced food due to which hungry rate is high.

Statement (II)-False-Reason: It is already mentioned in statement that technology has been advanced.

Statement (III)-True-Reason: Yes, it may be the big cause as production has been high but wastage during harvest, storage and transit becomes major reason for hunger of many people.

**S65. Ans.(d)**

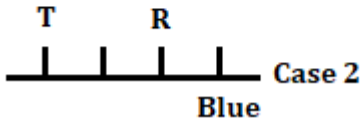
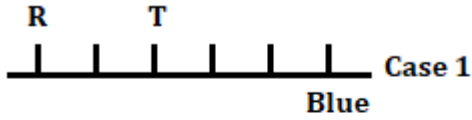
**Sol.** I. Ground, Neat, Print, Leakage= u, e, i, a ( No meaningful word is formed)

II. Pillow, Pictures, Hump, Pest= l, r, u, e = rule and lure two meaningful words formed

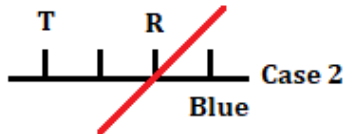
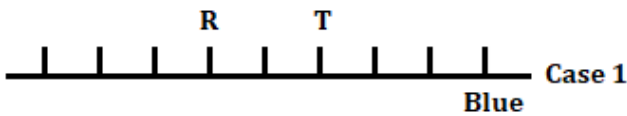
III. Street, Layer, Newly, Fresh= e, y, w, e ( No meaningful word is formed)

**Solutions (66-70):**

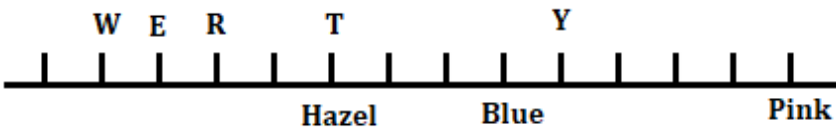
From the given statements, the one who likes blue sits 3<sup>rd</sup> to the right of T. One person sits between R and T. Here we have 2 possible cases.



The number of persons sit between R and the one who likes blue is one more than the number of persons sit to the left of R. Here case 2 is ruled out now.



E sits exactly between W and R. T sits right of W. Y and the one who likes blue are immediate neighbours. Y sits 4<sup>th</sup> to the right of the one who likes Hazel and 4<sup>th</sup> to the left of the one who likes pink. R does not like Hazel.



L and the one who likes pink are immediate neighbours. U sits 3<sup>rd</sup> to the left of L. H is the only immediate neighbour of L. The one who sits at the extreme ends likes black. L does not like black. So, the final arrangement is-

**S66. Ans.(b)**

**Sol.** 10 persons sit to the left of the one (unknown person) who sits immediate left of U

**S67. Ans.(c)**

**Sol.** Only II statement is true

**S68. Ans.(b)**

**Sol.** H likes pink and sits 2<sup>nd</sup> from a one of the extreme ends

**S69. Ans.(a)**

**Sol.** Seven persons sit between the ones who like blue and black

**S70. Ans.(d)**

**Sol.** The number of persons sit between T and the one who likes black is half than the number of persons sit between Y and the one who likes black.

**S71. Ans.(c)** The central theme of the above statement is “concern towards migration of workers due to increase cases of corona fearing of lock down as done earlier”.

Statement (I)-True-Reason: This statement is not matching with the central theme of the above statement. Some of action that has been taken by Australian Government, but it is not related to migrant workers.

Statement (II)-False-Reason: This statement is based on the central theme as workers is migrating from metro cities to their home town.

Statement (III)-True-Reason: This statement is also not based on the central theme of the above statement. It is about the Indian economy which is get boosted by IPL conducting this year.

**S72. Ans.(c)** Government has to take course of action for migrant workers with keeping in mind the increase case of corona.

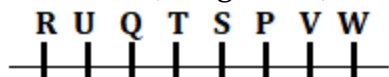
Statement(I)-False-Reason: To break the chain or to control the increase rate, Government can't withdraw all the restriction.

Statement (II)-True-Reason-Compensation can fulfil the basic need of migrant workers. So, this can be one of the courses of action.

Statement (III)-True-Reason-Government should find the midway to prevent corona and proper care should be taken care of labours. So, lockdown can be avoided with some restrictions.

**S73. Ans.(a)**

**Sol.** From I, we get that, three persons stand between P and U.

**S74. Ans.(e)**

**Sol.** On combining I and II, we get that, Param's brother's birth year is 2000 and his age is 16 years. And, param's birth year is 2003 so, his age is 13 years.

**S75. Ans.(d)**

**Sol.** From I and II, either E or B is 3<sup>rd</sup> lightest box.

$A > I > O > E > Q > B$  or  $O > I > A > B > Q > E$

**S76. Ans.(c)**

**Sol.** From I, D lives on 4<sup>th</sup> floor.

| Floor | Person |
|-------|--------|
| 5     | E      |
| 4     | D      |
| 3     | B      |
| 2     | A      |
| 1     | C      |

From II, D lives on 3<sup>rd</sup> floor.

| Floor | Person |
|-------|--------|
| 5     | E      |
| 4     | C      |
| 3     | D      |
| 2     | B      |
| 1     | A      |

**S77. Ans.(d)**

**S78. Ans.(e)**

**Sol.** I, II and III can be the reason of the happiness as the rain has an impact on wheat crop up to a large extent and it will definitely be the essential resource of good wheat crop yield. IV can't be reason as we don't have enough information regarding the occupation of states and also their crop productivity.

**Solutions (79-83):**

**Sol.** In this Input-Output one word and one number is arranged simultaneously in each step.

For Words- Words are arranged from right end according to the dictionary order in each step.

For numbers- Numbers are arranged in ascending order from left end of the series in each step.

**Input: Your 64 Success 16 Defines 20 You 33**

**Step I.** 16 Your 64 Success 20 You 33 Defines

**Step II.** 16 20 Your 64 You 33 Defines Success

**Step III.** 16 20 33 Your 64 Defines Success You

**Step IV.** 16 20 33 64 Defines Success You Your

**S79. Ans.(c)**

**Sol.** 3<sup>rd</sup> element from left end in step III = 33 and 3<sup>rd</sup> element from right end in step II = 33

Thus, the required sum = 66

**S80. Ans.(c)**

**Sol.** In Step III, "33 Your 64 Defines" is found in same manner.

**S81. Ans.(e)**

**Sol.** 2<sup>nd</sup> element from left end in step II = 20

So, 4<sup>th</sup> to the right of 20 is 33

**S82. Ans.(e)**

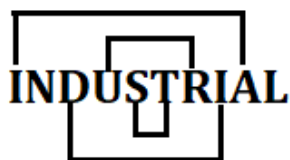
**Sol.** There are four elements between "20" and "You" in Step IV.

**S83. Ans.(b)**

**Sol.** "Defines" is in exact middle of "Your" and "You" in step III.

**S84. Ans.(d)**

**Sol.** There are four such pairs.



**Solutions (85-89):****Final arrangement:**

| Year | Person | College      |
|------|--------|--------------|
| 1998 | C      | Marine       |
| 2001 | E      | SGRR         |
| 2005 | A      | GLNA         |
| 2008 | G      | Stephen      |
| 2013 | B      | JNU          |
| 2018 | D      | Sent marry   |
| 2021 | F      | George mount |

**Clues:** D completed his graduation immediately before the one who is graduated from George mount and completed his graduation in an even numbered year but not in a leap year.

**Inference:** From the above conditions we have two possible cases:

| Year | Case 1 |              | Case 2 |              |
|------|--------|--------------|--------|--------------|
|      | Person | College      | Person | College      |
| 1998 | D      |              |        |              |
| 2001 |        | George mount |        |              |
| 2005 |        |              |        |              |
| 2008 |        |              |        |              |
| 2013 |        |              |        |              |
| 2018 |        |              | D      |              |
| 2021 |        |              |        | George mount |

**Clues:** As many persons completed their graduation after the one who is graduated from George mount as before the one who is graduated from Marine. The difference between the year of the one who is graduated from Marine and E's graduation year is 3 years.

**Inference:** From the above condition we get the given arrangement.

| Year | Case 1 |              | Case 2 |              |
|------|--------|--------------|--------|--------------|
|      | Person | College      | Person | College      |
| 1998 | D      |              |        | Marine       |
| 2001 |        | George mount | E      |              |
| 2005 |        |              |        |              |
| 2008 |        |              |        |              |
| 2013 |        |              |        |              |
| 2018 |        | Marine       | D      |              |
| 2021 | E      |              |        | George mount |

**Clues:** Three persons were graduated between E and the one who is graduated from Sent marry. G completed his graduation two persons before the one who is graduated from Sent marry. A completed his graduation immediately before the one who is graduated from Stephen. A doesn't completed his graduation in an even numbered year.

**Inference:** Case 1 gets eliminated here because we can't place G two persons before the one who is graduated from Sent marry.

| Year | Case 1 |              | Case 2 |              |
|------|--------|--------------|--------|--------------|
|      | Person | College      | Person | College      |
| 1998 | D      |              |        | Marine       |
| 2001 |        | George mount | E      |              |
| 2005 |        | Sent marry   | A      |              |
| 2008 |        |              | G      | Stephen      |
| 2013 |        |              |        |              |
| 2018 |        | Marine       | D      | Sent marry   |
| 2021 | E      |              |        | George mount |

**Clues:** No one completed the graduation between the one who is graduated from GLNA and the one who is graduated from SGRR. C is graduated immediately before the one who is graduated from SGRR.

**Inference:** From the above condition it is clear that C has completed his graduation in 1998.

| Year | Case 2 |              |
|------|--------|--------------|
|      | Person | College      |
| 1998 | C      | Marine       |
| 2001 | E      | SGRR         |
| 2005 | A      | GLNA         |
| 2008 | G      | Stephen      |
| 2013 |        |              |
| 2018 | D      | Sent marry   |
| 2021 |        | George mount |

**Clue:** F is graduated after the one who is graduated from JNU.

**Inference:** It is clear from the above condition that F has completed his graduation in 2021. B is graduated from JNU. Thus, the final arrangement is:

| Year | Person | College      |
|------|--------|--------------|
| 1998 | C      | Marine       |
| 2001 | E      | SGRR         |
| 2005 | A      | GLNA         |
| 2008 | G      | Stephen      |
| 2013 | B      | JNU          |
| 2018 | D      | Sent marry   |
| 2021 | F      | George mount |

**S85. Ans.(b)**

**Sol.** B is graduated from JNU.

**S86. Ans.(a)**

**Sol.** Five persons are graduated between C and F.

**S87. Ans.(d)**

**Sol.** Except the one who is graduated from Marine, all of them have completed their graduation in an odd numbered year.

**S88. Ans.(e)**

**Sol.** E is graduated from SGRR.

**S89. Ans.(c)**

**Sol.** All I, II and III statements are true.

**S90. Ans.(d)** In an advertisement, it is focused on pimple and testing it means company has surely consider the common people issue. And people believe on tested product. Nothing can be considered for stock or sale of products.

**S91. Ans.(d)**

**Sol.**

$$\text{Quantity of milk} = 144 \times \frac{11}{18} = 88 \text{ litres}$$

$$\text{Quantity of water} = 144 \times \frac{7}{18} = 56 \text{ litres}$$

ATQ,

$$\frac{88 - X \times \frac{11}{18}}{56 - X \times \frac{7}{18} + \left(\frac{X}{2} - 5\right)} = \frac{6}{5}$$

$$440 - \frac{55X}{18} = 336 - \frac{7X}{3} + (3X - 30)$$

$$440 - 336 + 30 = \frac{55X}{18} - \frac{7X}{3} + 3X$$

$$134 = \frac{67X}{18}$$

$$36 \text{ liter} = X$$

$$\text{Required value} = \frac{36}{4} = 9$$

**S92. Ans.(e)**

**Sol.** Let cost price of article Q be Rs. X

And cost price of article P = Rs. X+180

$$\text{Selling price of article P} = (X + 180) \times \frac{128}{100}$$

$$\text{Selling price of article Q} = X \times \frac{180}{100} = \text{Rs. } \frac{180X}{100}$$

ATQ,

$$(X + 180) \times \frac{128}{100} - \frac{180X}{100} = 116$$

$$\frac{(128X + 128 \times 180) - 180X}{100} = 116$$

$$-52X = 11600 - 23040$$

$$-52X = -11440$$

$$X = 220$$

$$\text{Cost price of article P} = 220 + 180 = \text{Rs. } 400$$

**S93. Ans.(b)**

$$\text{Sol. Side of a square} = \frac{112}{4} = 28 \text{ cm}$$

$$\text{Height of the cylinder} = \frac{28}{7} \times 6 = 24 \text{ cm}$$

Let radius of the cylinder be 'r' cm

ATQ.

$$\frac{22}{7} \times r^2 \times 24 = 14784$$

$$r^2 = 196$$

$$r = 14 \text{ cm}$$

$$\begin{aligned}\text{Total surfaced area of the cylinder} &= 2 \times \frac{22}{7} \times 14(14 + 24) \\ &= 88 \times 38 = 3344 \text{ cm}^2\end{aligned}$$

**S94. Ans.(b)**

**Sol.** Total males in company S = 230

$$\text{Total employees in company Q} = \frac{230}{23} \times 50 = 500$$

$$\text{Total females in company Q} = 500 \times \frac{1}{2} = 250$$

Total females in company P = 480

$$\text{Required percentage} = \frac{250}{480} \times 100 = 52.08 \approx 52\%$$

**S95. Ans.(a)**

**Sol.** Total employees in company S = 920

Total employees in company P = 800

$$\text{Required percentage} = \frac{920-800}{800} \times 100 = 15\%$$

**S96. Ans.(e)**

$$\text{Sol. Total males in company X} = \frac{5}{4} \times 260 = 325$$

$$\text{Total employees in company X} = \frac{2}{5} \times (800 + 650) = 580$$

$$\text{Total females in company X} = 580 - 325 = 255$$

Total females in company P = 480

$$\text{Required difference} = 480 - 255 = 225$$

**S97. Ans.(d)**

**Sol.** Total males in company P = 320

$$\text{Total employees in company Q} = 320 \times \frac{100}{40} = 800$$

$$\text{Total males in company Q} = 800 \times \frac{1}{2} = 400$$

Total females in company R = 260

$$\text{Required ratio} = 400 : 260 = 20 : 13$$

**S98. Ans.(b)**

$$\text{Sol. Total males in company A} = 260 \times 3 - (320 + 230) = 230$$

We have no data about total employees in company Q

So, can't be determined total employee in company A

**S99. Ans.(d)**

$$\text{Sol. } ? + 37 - 45 \approx 13$$

$$? \approx 13 + 8$$

$$? \approx 21$$

**S100. Ans.(b)**

**Sol.**  $360 - \frac{80}{100} \times 1200 + 840 \approx ?$   
 $1200 - 960 \approx ?$   
 $? \approx 240$

**S101. Ans.(e)**

**Sol.** I.  $x^2 + 2x + 3x + 6 = 0$   
 $x(x + 2) + 3(x + 2) = 0$   
 $(x + 3)(x + 2) = 0$   
 $x = -2, -3$   
 II.  $y^2 + 3y - 2y - 6 = 0$   
 $y(y + 3) - 2(y + 3) = 0$   
 $(y - 2)(y + 3) = 0$   
 $y = 2, -3$   
 So, no relation

**S102. Ans.(c)**

**Sol.** I.  $2x^2 - 7x - 4x + 14 = 0$   
 $x(2x - 7) - 2(2x - 7) = 0$   
 $(x - 2)(2x - 7) = 0$   
 $x = 2, \frac{7}{2}$   
 II.  $y^2 - 6y - 5y + 30 = 0$   
 $y(y - 6) - 5(y - 6) = 0$   
 $(y - 6)(y - 5) = 0$   
 $y = 6, 5$   
 So,  $x < y$

**S103. Ans.(b)**

**Sol.** I.  $x^2 + 7x - 6x - 42 = 0$   
 $x(x + 7) - 6(x + 7) = 0$   
 $(x - 6)(x + 7) = 0$   
 $x = 6, -7$   
 II.  $y^2 + 11y + 7y + 77 = 0$   
 $y(y + 11) + 7(y + 11) = 0$   
 $(y + 7)(y + 11) = 0$   
 $y = -7, -11$   
 So,  $x \geq y$

**S104. Ans.(c)**

**Sol.** I.  $x^2 + 11x + 9x + 99 = 0$   
 $x(x + 11) + 9(x + 11) = 0$   
 $(x + 11)(x + 9) = 0$   
 $x = -11, -9$   
 II.  $2y^2 + 7y + 8y + 28 = 0$   
 $y(2y + 7) + 4(2y + 7) = 0$   
 $(y + 4)(2y + 7) = 0$   
 $y = -4, -\frac{7}{2}$   
 So,  $x < y$

**S105. Ans.(a)**

**Sol.** I.  $5x^2 - 15x - 20x + 60 = 0$

$$5x(x - 3) - 20(x - 3) = 0$$

$$(5x - 20)(x - 3) = 0$$

$$x = 4, 3$$

II.  $2y^2 - 4y - 3y + 6 = 0$

$$2y(y - 2) - 3(y - 2) = 0$$

$$(2y - 3)(y - 2) = 0$$

$$y = \frac{3}{2}, 2$$

So,  $x > y$

**S106. Ans.(a)**

**Sol.** Wrong number = 232

Pattern of series –

$$14 + (22 \times 1) = 36$$

$$36 + (22 \times 2) = 80$$

$$80 + (22 \times 3) = 146$$

$$146 + (22 \times 4) = \mathbf{234}$$

$$234 + (22 \times 5) = 344$$

$$344 + (22 \times 6) = 476$$

**S107. Ans.(b)**

**Sol.** Wrong number = 141

Pattern of series –

Addition of consecutive prime numbers

$$23 + 17 = 40$$

$$40 + 19 = 59$$

$$59 + 23 = 82$$

$$82 + 29 = 111$$

$$111 + 31 = \mathbf{142}$$

$$142 + 37 = 179$$

**S108. Ans.(c)**

**Sol.** Wrong number = 3

Pattern of series –

$$4 \times 1 + 1 = \mathbf{5}$$

$$5 \times 2 + 2 = 12$$

$$12 \times 3 + 3 = 39$$

$$39 \times 4 + 4 = 160$$

$$160 \times 5 + 5 = 805$$

$$805 \times 6 + 6 = 4836$$

**S109. Ans.(d)****Sol.** Wrong number = 516

Pattern of series –

$$128 + 2^2 = 132$$

$$132 + 3^3 = 159$$

$$159 + 4^2 = 175$$

$$175 + 5^3 = 300$$

$$300 + 6^2 = \mathbf{336}$$

$$336 + 7^3 = 679$$

**S110. Ans.(e)****Sol.** Wrong number = 328

Pattern of series –

$$\begin{array}{ccccccccc}
 \underline{3}, & 26, & 64, & 115, & 177, & 248, & 326 \\
 +23 & +38 & +51 & +62 & +71 & +78 \\
 +15 & +13 & +11 & +9 & +7
 \end{array}$$

**Solutions (111-115):**

| Shops    | Total items sold                 | Total items unsold               |
|----------|----------------------------------|----------------------------------|
| <b>A</b> | $\frac{80}{100} \times 120 = 96$ | $\frac{20}{100} \times 200 = 40$ |
| <b>B</b> | $\frac{1}{3} \times 117 = 39$    | $\frac{2}{3} \times 150 = 100$   |
| <b>C</b> | $\frac{1}{6} \times 300 = 50$    | $\frac{1}{9} \times 180 = 20$    |
| <b>D</b> | $\frac{20}{100} \times 125 = 25$ | $\frac{25}{100} \times 240 = 60$ |
| <b>E</b> | $\frac{45}{100} \times 180 = 81$ | $\frac{15}{100} \times 180 = 27$ |

**S111. Ans.(a)****Sol.** Required ratio = (50+25): (100+40) = 75:140 = 15:28**S112. Ans.(d)****Sol.** Total unsold items of shop C = 20

Let the total items of shop F = X

$$X \times \frac{60}{100} = 240$$

$$X = 400$$

Total items sold by shop F which are not from shop C = 400 – 240 – 20 = 140

**S113. Ans.(a)****Sol.** Required answer =  $\frac{(25+60)}{50} \times 100 = 170\%$

**S114. Ans.(d)****Sol.** Unsold items of shop X = 96

Sold items of shop X = 125% of 100 = 125

Total items in shop X = 96+125 =221

**S115. Ans.(e)****Sol.** Total items sold by E = 81Cost of each item =  $\frac{3240}{81} = \text{Rs. } 40$ **S116. Ans.(d)****Sol.** Height of C = 50 cm**From statement I:** Sum of height A and C = 160 cm

Height of A = 160-50=110 cm

**From statement II:** Height of B =  $3 \times 50 = 150 \text{ cm}$ 

Both the statements are required to answer the question.

**S117. Ans.(d)****Sol.** Cost price = Rs.100**From statement I:** marked price = Rs.140**From statement I and II together:** selling price =  $140 \times \frac{80}{100} = \text{Rs. } 112$ 

Profit earned = Rs.(112-100) = Rs.12

Both the statement is required to answer.

**S118. Ans.(a)****Sol.** Value of x and y cannot calculate by these two statements.

So, neither (I) nor (II) statements are sufficient to answer the question.

**S119. Ans.(e)****Sol.** Let speed of boat in still water = y km/hr

Speed of boat in Upstream = (y - 3) km/hr

Speed of boat in downstream = (y + 3) km/hr

ATQ,

$$y = \frac{(100 + 50)}{100} \times (y - 3)$$

$$y = \frac{150}{100} (y - 3)$$

$$2y = 3y - 9$$

$$y = 9 \text{ km/hr}$$

$$\text{Given, } \frac{x}{(9+3)} = 5$$

$$x = 60 \text{ km}$$

$$\text{Required time} = \frac{(60-24)}{(9-3)} = 6 \text{ hours}$$

**S120. Ans.(c)****Sol.** let length of platform = x meters

So, length of train = x - 120

$$\frac{x-120+x}{54 \times \frac{5}{18}} = 20$$

$$2x - 120 = 300$$

$$2x = 420$$

$$x = 210$$

So, length of train = 210 - 120 = 90 meters

$$\text{Required time} = \frac{90+135}{54 \times \frac{5}{18}} = 15 \text{ seconds}$$

**Solutions (121-125):**

Let the total distance travelled by A be x km.

So, distance travelled by C = 4x

Distance travelled by B = x+100

Distance travelled by D = 8x

Distance travelled by E = 4x - 100

$$\text{Average speed} = \frac{x+4x+x+100+8x+4x-100}{18} = 50$$

$$x = 50 \text{ km}$$

$$\text{Speed of C} = \frac{200}{4} = 50 \text{ km/hr}$$

| Friends | Distance (km) | Time (hour) |
|---------|---------------|-------------|
| A       | 50            | 1           |
| B       | 150           | 3           |
| C       | 200           | 4           |
| D       | 400           | 8           |
| E       | 100           | 2           |

**S121. Ans.(a)**

$$\text{Sol. Total distance} = 50 \times 18 = 900 \text{ km}$$

**S122. Ans.(b)**

$$\text{Sol. Required ratio} = (50+150):(200+400) = 200:600 = 1:3$$

**S123. Ans.(c)**

$$\text{Sol. Required percentage} = \frac{(400+100)-150}{150} \times 100 = 233\frac{1}{3}\%$$

**S124. Ans.(d)**

$$\text{Sol. Required answer} = \frac{120}{100} \times 150 \times \frac{1}{50} + \frac{125}{100} \times 200 \times \frac{1}{50} = 3.6 + 5 = 8.6 \text{ hours}$$

**S125. Ans.(a)**

$$\text{Sol. Required answer} = (8+1) - (4+2) = 9 - 6 = 3 \text{ hours}$$

**S126. Ans.(b)**

**Sol.** Total time taken by B to complete whole work =  $\frac{40}{3} \times \frac{6}{5} = 16 \text{ days}$

A and B together complete the whole work =  $\frac{8}{5} \times 6 = \frac{48}{5} \text{ days}$

Let total work = 96 unit

Efficiency of B =  $\frac{96}{16} = 6 \text{ unit/day}$

Efficiency of A and B =  $\frac{96 \times 5}{48} = 10 \text{ unit/day}$

So, efficiency of A =  $10 - 6 = 4 \text{ unit/day}$

So, number of days taken by A =  $\frac{96}{4} = 24 \text{ days}$

Efficiency of C =  $\frac{6}{2} = 3 \text{ unit/day}$

Number of days taken by C to complete 50% of the work =  $96 \times \frac{50}{100} \times \frac{1}{3} = 16 \text{ days}$

**S127. Ans.(d)**

**Sol.** Equivalent single interest rate at 20% p.a. on compound interest for two years

=  $(20 + 20 + \frac{20 \times 20}{100})\% = 44\%$

ATQ,  $x \times \frac{44}{100} = y$

$x : y = 25 : 11$

Let x and y be 25a & 11a respectively

Given,  $36a \times \frac{12.5 \times 2}{100} = 144$

$36a = 576$

$a = 16$

So,  $y = 16 \times 11 = 176 \text{ Rs.}$

**S128. Ans.(c)**

**Sol.** Let cost price of article =  $100x$

So, marked price of article =  $100x \times \frac{160}{100} = 160x$

Discount allowed by the shopkeeper =  $100x \times \frac{50}{100} = 50x$

ATQ,  $(160x - 50x) - 100x = 50$

$10x = 50$

$x = 5$

Cost price of article = 500 Rs.

Required selling price =  $500 \times \frac{124}{100} = 620 \text{ Rs.}$

**S129. Ans.(d)**

**Sol.** Ratio of profit share of A to B

=  $(6 \times T + 3 \times (12 - T)) : (9 \times (T + 2) + 5 \times (10 - T))$

=  $(3T + 36) : (4T + 68)$

ATQ,  $\frac{3T + 36}{4T + 68} = \frac{4}{7}$

$21T + 252 = 16T + 272$

$5T = 20$

$T = 4$

So,  $(T + 2) = 6$

**S130. Ans.(e)**

**Sol.** Initial quantity of water =  $240 \times \frac{3}{8} = 90$  liters

Initial quantity of milk =  $240 \times \frac{5}{8} = 150$  liters

$$\text{ATQ, } \frac{90+y+10}{150} = \frac{4}{5}$$

$$500 + 5y = 600$$

$$5y = 100$$

$$y = 20$$

$$\text{Required ratio} = \frac{90}{150+20} = 9 : 17$$

**Solutions (131-135):**

Percentage of total number of students in school S =  $(100 - 10 - 30 - 15 - 25)\% = 20\%$

$$20\% = 240$$

$$100\% = 1200$$

So, total number of students in all the five schools together = 1200

$$\text{Total number of students in school P} = \frac{10}{100} \times 1200 = 120$$

Let total number of boys in school P be  $x$

$$\text{And total number of girls in school P} = x \times \frac{50}{100} = 0.5x$$

ATQ,

$$x + 0.5x = 120$$

$$1.5x = 120$$

$$x = 80$$

Total number of boys in school P = 80

And total number of girls in school P =  $0.5 \times 80 = 40$

Similarly,

| Schools | Total number of students | Total number of boys | Total number of girls |
|---------|--------------------------|----------------------|-----------------------|
| P       | 120                      | 80                   | 40                    |
| Q       | 360                      | 240                  | 120                   |
| R       | 180                      | 120                  | 60                    |
| S       | 240                      | 160                  | 80                    |
| T       | 300                      | 200                  | 100                   |

**S131. Ans.(b)**

**Sol.** Required ratio =  $160 + 200 : 40 + 120$

$$= 360 : 160 = 9 : 4$$

**S132. Ans.(e)**

$$\text{Sol. Required percentage} = \frac{\left(\frac{40+60}{2}\right)}{360} \times 100 = 13.88\% \approx 14\%$$

**S133. Ans.(d)**

**Sol.** Number of boys in school X =  $\frac{5}{4} \times 60 = 75$

Total number of students in school X =  $\frac{300}{5} \times 3 = 180$

Number of girls in school X =  $180 - 75 = 105$

Required difference =  $120 - 105 = 15$

**S134. Ans.(a)**

**Sol.** Number of boys participated in boxing =  $\frac{60}{100} \times 80 = 48$

Number of boys participated in kabaddi =  $\frac{40}{100} \times 80 = 32$

Number of girls participated in kabaddi =  $\frac{32}{4} \times 3 = 24$

Total number of students participated in boxing =  $48 + (40 - 24) = 64$

**S135. Ans.(c)**

**Sol.** Total number of girls in P, R and T =  $40 + 60 + 100 = 200$

Total number of boys =  $1200 - (40 + 120 + 60 + 80 + 100) = 800$

Required percentage =  $\frac{800-200}{800} \times 100 = 75\%$

**S136. Ans.(a)**

**Sol.** Let radius & height of each cylinder be 'r cm'

So, radius of sphere =  $3r$  cm

Volume of sphere =  $84 \times$  volume of each cylinder

$$\frac{4}{3}\pi(3r)^3 = 84 \times \pi \times r^2 \times 3$$

$$12r = 84$$

$$r = 7$$

So, required radius =  $3r = 21$  cm

**S137. Ans.(c)**

**Sol.** Let present age of A and B be 'a' & 'b' respectively

$$\text{ATQ, } \frac{a}{b+3} = \frac{8}{11}$$

$$11a = 8b + 24 \text{ -----(i)}$$

$$\text{Also given, } a + b + 8 = 62$$

$$a = 54 - b \text{ ----(ii)}$$

From (i) and (ii) we get –

$$594 - 11b = 8b + 24$$

$$19b = 570$$

$$b = 30 \text{ years}$$

$$\text{And } a = 24 \text{ years}$$

So, Required difference = 6 years

**S138. Ans.(c)**

**Sol.** Let income of man =  $100x$

$$\text{So, amount spend on food} = 100x \times \frac{30}{100} = 30x$$

$$\text{Amount spend on rent} = 100x \times \frac{25}{100} = 25x$$

$$\text{And amount spend on transport} = 100x \times \frac{10}{100} = 10x$$

$$\text{Total amount distributed to Z and Y} = 100x - (30x + 25x + 10x) \times \frac{60}{100} = 21x$$

$$\text{Saving of man} = 100x - (30x + 25x + 10x + 21x) = 14x$$

$$\text{ATQ, } 21x \times \frac{5}{7} - 14x = 600$$

$$x = 600$$

So, amount spend by man on transport =  $600 \times 10 = 6000$  Rs.

**S139. Ans.(d)**

**Sol.** Let speed of train P be  $p$  km/hr  
 And speed of train Q =  $(p + 22)$  km/hr

ATQ

$$\frac{510}{\frac{5 \frac{40}{60}}{5}} = (p + p + 22)$$

$$\frac{510}{17} \times 3 = 2p + 22$$

$$2p = 68$$

$$p = 34$$

Speed of train P = 34 km/hr

Speed of train Q =  $34 + 22 = 56$  km/hr

**S140. Ans.(a)**

**Sol.** Let total work (L.C.M. of 32, 28 & 40) = 1120 units

$$\text{Efficiency of X} = \frac{1120}{32} = 35 \text{ units/day}$$

$$\text{Efficiency of Y} = \frac{1120}{28} = 40 \text{ units/day}$$

$$\text{Efficiency of Z} = \frac{1120}{40} = 28 \text{ units/day}$$

Amount of work done by X & Z together in 15 days =  $15 \times (35 + 28) = 945$  units

Remaining work =  $1120 - 945 = 175$  units

$$\text{Efficiency of P} = \frac{175}{3.5} - 40 = 10 \text{ units/day}$$

$$\text{Required days} = \frac{\frac{1120}{10}}{4} = 28 \text{ days}$$

**S141. Ans.(c)**

**Sol. IndusInd Bank** has launched 'eSvarna,' the first corporate credit card on the RuPay network in India.

**Details-**

- **First-of-its-kind Initiative:** IndusInd Bank is the first to introduce a corporate credit card on the RuPay network with UPI integration.
- **UPI Functionality:** This card allows corporate users to make seamless UPI payments by linking it to UPI-enabled apps, enhancing payment flexibility.
- **Target Audience:** Tailored for large corporates and their employees, offering a smoother transactional experience at merchant outlets.
- **Exclusive Rewards:** Provides perks, rewards, and benefits designed to elevate corporate banking experiences.
- **Impact:** The launch signifies a step forward in enabling corporate clients to manage their transactions efficiently while accessing unique offerings.

**S142. Ans.(d)**

**Sol.** The **Eighth Schedule** of the Indian Constitution is related to the **official languages of India**.

- **Content:** It lists the official languages recognized by the Indian Constitution.
- **Articles:** Part XVII of the Constitution deals with the official languages in Articles 343 to 351.
- **Number of Languages:** Initially, the Eighth Schedule had 14 languages; it now includes **22 languages**.
- **Purpose:** The schedule ensures linguistic diversity and representation of various regional languages across India.

**S143. Ans.(d)**

**Sol.** The **European Union (EU)** announced the introduction of the **Carbon Border Adjustment Mechanism (CBAM)** in its transitional phase from October 2023.

- **CBAM:** It imposes a carbon tax on imports of products that are made using non-environmentally sustainable or non-green processes.
- **Objective:** The mechanism is designed to prevent carbon leakage by taxing imports from countries with less stringent environmental regulations.
- **Transition Phase:** The transitional phase started in October 2023, gradually moving toward full implementation.
- **Targeted Sectors:** It primarily focuses on industries like steel, cement, and aluminum, which are energy-intensive and have significant carbon footprints.

**S144. Ans.(c)**

**Sol.** The lock-in period for investments in an Equity Linked Savings Scheme (ELSS) is **3 years**.

**Equity Linked Savings Scheme-**

- **Lock-in Duration:** ELSS has a mandatory lock-in period of 3 years, meaning investors cannot redeem their investments before this period.
- **Investment Composition:** ELSS funds invest at least 80% of their assets in equities and equity-related instruments, providing exposure to the stock market.
- **Tax Benefits:** ELSS investments are eligible for tax deduction under Section 80C of the Income Tax Act, up to ₹1.5 lakh annually.
- **Risk and Returns:** ELSS has the potential for higher returns due to its equity exposure but also carries market risks.
- **Flexibility:** After the lock-in period, investors can choose to stay invested for potential capital appreciation or redeem based on their financial needs.

**S145. Ans.(c)**

**Sol.** The Monetary Policy Committee (MPC) consists of **6 members** as per Section 45ZB of the RBI Act, 1934.

- **Composition:**
  1. RBI Governor as the ex officio chairperson
  2. Deputy Governor in charge of monetary policy
  3. An officer of the RBI nominated by the Central Board
  4. Three external members appointed by the central government
- **Amendment:** The MPC was constituted after the 2016 amendment to the RBI Act, 1934, to bring transparency and accountability in setting interest rates.
- **Function:** The MPC meets periodically to set the policy repo rate, which influences inflation and economic growth.

**S146. Ans.(d)**

**Sol.** **China** is **not** a member of SAARC, which primarily consists of South Asian nations.

**South Asian Association for Regional Cooperation-**

- **SAARC Members:** Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lanka are the eight member countries.
- **Objective:** SAARC promotes economic and regional integration among its member nations.
- **Observers:** China, among others, is an observer in SAARC but not a full member.
- **Formation:** SAARC was established in 1985 with a focus on regional cooperation and development in South Asia.

**S147. Ans.(b)**

**Sol.** India conducted the 2nd edition of the Joint Special Forces exercise 'Cyclone' **with Egypt**.

**Details-**

- **Exercise Name:** 'Cyclone' is a joint special forces exercise between India and Egypt.
- **Dates:** The exercise was conducted from January 22 to February 1, 2024.
- **Location:** Held at Anshas, Egypt.
- **Objective:** The exercise aimed to improve defense cooperation and enhance interoperability between the special forces of both nations.
- **Significance:** It strengthened the growing strategic and defense ties between India and Egypt.

**S148. Ans.(d)**

**Sol.** The **Odisha Government** has announced plans to establish the world's first melanistic tiger safari in Mayurbhanj district.

**Details-**

- **Location:** The safari will be set up in Mayurbhanj district, Odisha.
- **Unique Feature:** It will showcase melanistic tigers, a rare species found in the wild only in Odisha.
- **Safari Area:** The safari will span 200 hectares, with 100 hectares allocated for displaying tigers and the rest for veterinary and visitor facilities.
- **Conservation Efforts:** The project aims to boost eco-tourism and conservation efforts in the state.
- **Significance:** Odisha is the only place where melanistic tigers exist in the wild, making this safari a global attraction.

**S149. Ans.(c)**

**Sol.** An International Securities Identification Number (ISIN) code consists of **12 alphanumeric characters**.

- **Structure:**
  1. The first two letters represent the country where the issuing company is based.
  2. The next nine digits identify the specific security, acting as a unique identifier.
  3. The final character, known as the 'check digit,' is used to verify the authenticity of the ISIN code.
- **Global Standard:** ISIN codes are used globally and allocated by a country's National Numbering Agency (NNA) for securities issued within its jurisdiction.
- **Purpose:** ISIN codes are used globally to uniquely identify securities like stocks and bonds, ensuring smooth cross-border trading.

**S150. Ans.(d)**

**Sol.** Indian tennis player **Rohan Bopanna** became the oldest Grand Slam winner after claiming the Australian Open 2024 title with Matthew Ebden.

**Details-**

- **Age Milestone:** Rohan Bopanna achieved this feat at the age of 43, surpassing the previous record held by Ken Rosewall, who won a Grand Slam at 37.
- **Grand Slam Titles:** This is Bopanna's second Grand Slam title; his first was the 2017 French Open, won with Gabriela Dabrowski in mixed doubles.
- **Match Details:** In the finals, Bopanna and Ebden defeated the Italian pair of Simone Bolelli and Andrea Vavassori.

**S151. Ans.(c)**

**Sol.** The Board of Control for Cricket in India (BCCI) has partnered with **SBI Life** as its official partner for the 2023-2026 domestic and international season.

The three-year partnership will be in effect from the India-Australia ODI series starting on September 22, 2023.

**S152. Ans.(d)**

**Sol.** The GST Council recommended a **28% GST** rate for online gaming, casinos, and horse racing during its 50th meeting on 11th July 2023.

**Details-**

- **Rate:** 28% GST will apply on the full face value for these activities.
- **Games of Skill or Chance:** The Council, with the help of the Group of Ministers (GoM), concluded the debate over "games of skill or chance" by imposing a uniform 28% GST rate.
- **Casino Chips:** Once a 28% GST is charged on the initial purchase of casino chips, no further GST will be charged on new bets made from earnings of previous rounds.
- **Amendment to GST Law:** An amendment will be made to the GST law to incorporate these changes.

**S153. Ans.(c)**

**Sol.** ISRO has placed the Aditya-L1 spacecraft approximately 1.5 million km from Earth in a halo orbit around the Lagrangian point (L1) as part of India's first solar mission.

- **Launch Date:** The spacecraft was launched on September 2, 2023, and reached the L1 point after 127 days of travel.
- **Orbit Details:** The halo orbit is a stable, three-dimensional orbit that minimizes fuel consumption and ensures continuous solar observations.
- **Mission Objective:** The orbit around L1 provides an uninterrupted view of the Sun, critical for solar research.

**S154. Ans.(c)**

**Sol.** India has an estimated **718 snow leopards** in the wild, according to the first-of-its-kind estimation exercise concluded in 2023.

- **Estimation Period:** The assessment, known as the Snow Leopard Population Assessment in India (SPAII), began in 2019 and took four years to complete.
- **Regional Distribution:** Ladakh recorded the highest number with 477 leopards, followed by Uttarakhand (124), Himachal Pradesh (51), Arunachal Pradesh (36), Sikkim (21), and Jammu & Kashmir (9).
- **Global Population:** India's snow leopard population represents approximately 10-15% of the global snow leopard population.
- **Threats:** Snow leopards are classified as 'vulnerable' by the International Union for Conservation of Nature (IUCN) and face threats from poaching, human-wildlife conflicts, and free-ranging dogs.
- **Release:** The report on the status of snow leopards in India was released by the Union Minister of Environment, Forest, and Climate Change during a National Board for Wildlife meeting in New Delhi.

**S155. Ans.(c)**

**Sol.** Mahatma Gandhi returned to India from South Africa in **1915** after spending more than two decades there.

- **Return Date:** He arrived in Bombay on January 9, 1915.
- **Time in South Africa:** Gandhi lived in South Africa for over 20 years, where he developed his ideas and strategies for non-violent resistance.
- **Historical Significance:** This day, 9th January, is celebrated as "Pravasi Bharatiya Divas" in India to mark his return.

**S156. Ans.(d)**

**Sol.** The economic situation where slow growth, high unemployment, and rising prices occur simultaneously is known as **stagflation**.

- **Slow Growth:** The economy grows at a sluggish pace, indicating stagnation.
- **High Unemployment:** Despite rising prices, there is high unemployment, worsening economic conditions.
- **Rising Prices:** Inflation occurs, leading to higher prices for goods and services, adding to the economic strain.

**S157. Ans.(c)**

**Sol.** Banks in India are classified as "Scheduled Banks" under **Schedule II of the Reserve Bank of India Act, 1934**, which grants them access to certain privileges and banking facilities.

These banks can access loans and other facilities from the Reserve Bank of India. To be included, banks must meet certain conditions related to capital, reserves, and operational standards set by the RBI.

**S158. Ans.(c)**

**Sol.** As of 2023, the Non-Aligned Movement (NAM) has **120 member countries**.

**Details-**

- **Foundation:** NAM was established during the Cold War to ensure that countries did not align with any major power bloc.
- **Mission:** It promotes political and diplomatic independence for countries, particularly in international relations.
- **Membership:** NAM consists of 120 member countries, with additional observer countries and organizations.

**S159. Ans.(a)**

**Sol.** KAVACH is an indigenously developed **Automatic Train Protection (ATP)** system created by the Research Design and Standards Organisation (RDSO) in collaboration with the Indian industry.

- **Purpose:** It is designed to enhance the safety of train operations by preventing collisions.
- **Development:** It is part of India's efforts to boost railway safety using indigenous technologies.
- **Functionality:** The system automatically stops trains when they pass a red signal or approach danger zones, reducing human error.

**S160. Ans.(c)**

**Sol.** **DBS Bank India**, a subsidiary of DBS Singapore, has partnered with the Tamil Nadu government-backed **StartupTN** to foster entrepreneurship in the state.

- **Partnership Focus:** The collaboration targets early-stage startups in Tier II and III towns.
- **Objective:** It aims to strengthen the startup ecosystem by offering crucial support, knowledge sharing, and facilitating connections with potential investors.
- **Startup Support:** This initiative helps promote innovation and entrepreneurship in smaller towns across Tamil Nadu.

**S161. Ans.(d)**

**Sol.** Life Insurance Corporation of India (LIC) is planning to acquire up to 10 percent equity stake in a company promoted by the National Housing Bank (NHB) that will focus on residential mortgage-backed securities (RMBS).

LIC's Board of Directors approved the proposal to invest in this NHB-promoted entity. The investment will help LIC expand its portfolio in the housing finance sector.

Residential Mortgage-Backed Securities are bonds backed by a large pool of home loans and are considered relatively safer investments.

**S162. Ans.(e)**

**Sol.** The Gujarat government has signed a Memorandum of Understanding (MoU) with **Mazagon Dock Shipbuilders Limited**, a defence public sector undertaking, to build tourist submarines for ferrying visitors to Lord Krishna's Dwarka city.

- **Submarine Capability:** The submarines will be capable of going up to 100 feet under water.
- **Objective:** The initiative is aimed at enhancing tourism by offering underwater tours of the historical Dwarka city.

**S163. Ans.(e)**

**Sol.** All the given statements are correct regarding the gross GST revenue collection for January 2024.

- **Statement 1:** The gross GST revenue collected in January 2024 was ₹1,72,129 crore.
- **Statement 2:** The collection showed a 10.4% year-on-year growth compared to January 2023, which recorded ₹1,55,922 crore.
- **Statement 3:** The cumulative gross GST collection for the April 2023-January 2024 period saw an 11.6% year-on-year growth, reaching ₹16.69 lakh crore.

**S164. Ans.(c)**

**Sol.** RBI's economic activity index (EAI) has estimated GDP growth for **Q3 (October-December) FY24** at **7.0%**.

This estimate is higher than the real GDP growth projection of 6.5% for Q3 FY24, which was mentioned by the RBI Governor in the December 2023 monetary policy statement. The strong domestic demand has maintained resilience in economic activity despite external challenges.

**S165. Ans.(c)**

**Sol.** For the year 2024, **30 women** have been included in the list of Padma Award recipients.

- **Total Awards:** The President has approved a total of 132 Padma Awards, including 2 duo cases.
- **Categories:** The list includes 5 Padma Vibhushan, 17 Padma Bhushan, and 110 Padma Shri awards.
- **Other Recipients:** The list also includes 8 persons from the Foreigners/NRI/PIO/OCI category and 9 posthumous awardees.

**S166. Ans.(e)**

**Sol.** Meghalaya does not share a border with Myanmar.

- **States Sharing Border with Myanmar:** Arunachal Pradesh, Nagaland, Mizoram, and Manipur.
- **Meghalaya:** It is located in the northeastern part of India but shares borders only with Assam and Bangladesh.

**S167. Ans.(e)**

**Sol.** **China** continues to hold the global lead as the largest producer of crude steel in the world.

China's vast industrial base and demand for steel contribute to its dominant position in the global steel industry. India and Japan follow China as major producers of crude steel globally.

**S168. Ans.(c)**

**Sol.** **Aditya Birla Sun Life Insurance (ABSLI)**, the life insurance arm of Aditya Birla Capital, has launched a tailored protection solution specifically designed for salaried professionals.

- **Plan Features:** The solution is non-linked, non-participating, and provides pure risk protection with premium customization options based on individual needs.
- **Target Audience:** It is aimed at offering cost-effective life cover options for salaried individuals.

**S169. Ans.(c)**

**Sol.** The RBI has allowed Qualified Jewellers to remit advance payment for **11 days** for the import of silver through International Bullion Exchange IFSC Ltd (IIBX).

Previously, this facility was available only for the import of gold. The guidelines for the import of gold by Qualified Jewellers have now been extended to include silver as well.

**S170. Ans.(c)**

**Sol.** The colourful tableau of **Odisha** that highlighted women empowerment and its rich handicraft and handloom sector won the first prize among the tableaux showcased by various states and Union territories during the 75th Republic Day parade.

A total of 16 tableaux from states and Union territories and 9 from central ministries and departments were part of the parade.

The grand celebrations were graced by French President Emmanuel Macron as the chief guest.

**S171. Ans.(e)**

**Sol.** The 13th Ministerial Conference (MC13) of the **World Trade Organization (WTO)** took place in **Abu Dhabi, UAE**, from 26 February to 2 March 2024.

The conference aimed to review the functioning of the multilateral trading system and shape the future work of the WTO. Ministers from countries with diverse levels of development and geopolitical perspectives attended the event.

**S172. Ans.(c)**

**Sol.** In the Brand Finance Global 500 2024 Report, **Jio** has been ranked at 17th place as the world's strongest brand, while **WeChat** has topped the list globally, securing the 1st position.

Jio is strongest Indian brand with a brand strength index of 88.9. WeChat is ranked 1st globally, followed by YouTube and Google in 2nd and 3rd positions, respectively.

**S173. Ans.(d)**

**Sol.** The Indian economy is projected to grow by **7.3%** in FY 2023-24, as per the First Advance Estimates (FAE) released by the National Statistical Office (NSO).

The provisional growth rate for the previous financial year (FY 2022-23) was 7.2%.

**S174. Ans.(c)**

**Sol.** The **2024 G20 Summit** will be hosted in **Rio de Janeiro**, Brazil, from November 18-19, 2024. This marks the first time Brazil will host the G20 summit, where world leaders will gather to discuss global economic and environmental issues.

### S175. Ans.(c)

**Sol. Masala Bonds** is correct.

- **Definition:** Masala Bonds are rupee-denominated bonds issued by Indian entities in foreign markets.
- **Currency Risk:** The foreign investors bear the currency exchange risk, not the Indian issuer.
- **Other Bonds:**
  - **Samurai Bonds:** Yen-denominated bonds issued in Japan by non-Japanese entities.
  - **Foreign Currency Convertible Bonds (FCCBs):** Bonds issued by Indian companies in foreign currency, convertible into equity.
  - **Yankee Bonds:** U.S. dollar-denominated bonds issued in the United States by non-U.S. entities.
  - **Global Depository Receipts (GDRs):** A financial instrument used by foreign companies to raise capital by issuing shares in foreign markets, although not technically a bond.

### S176. Ans.(e)

**Sol. United Kingdom** is not a member of the I2U2 Group.

**Definition:** The I2U2 Group is a strategic partnership aimed at fostering collaboration in key sectors like energy, technology, and regional security among its member nations.

- **Member Countries:**
  - **India:** Contributes significantly to the group's strategic initiatives and economic collaborations.
  - **Israel:** Brings expertise in technology and innovation, enhancing the group's technological advancements.
  - **United Arab Emirates:** Plays a crucial role in energy cooperation and economic partnerships within the group.
  - **United States:** Provides strategic leadership and support in global affairs, strengthening the group's international influence.

**Non-Member Country:**

- **United Kingdom:** Although a significant global player, the United Kingdom is not part of the I2U2 Group partnership.

### S177. Ans.(d)

**Sol.** The validity of FASTag is **5 years** after issuance.

**Details-**

- **Recharge Process:** After purchasing FASTag, users need to recharge or top up the tag based on their usage.
- **Convenience:** FASTag enables easy and automatic toll payments, eliminating the need for stopping at toll plazas.
- **Usage:** It can be used multiple times and is linked to a prepaid account for automatic toll deduction.
- **Renewal:** Once expired, the user may need to get a new FASTag or renew it depending on the service provider.

### S178. Ans.(c)

**Sol.** The Reserve Bank of India (RBI) has permitted LIC to increase its stake in HDFC Bank up to **9.99%**.

**Details-**

- **Existing Stake:** As of December 31, 2023, LIC holds 5.19% of HDFC Bank's shares.
- **Valuation:** This stake is valued at approximately ₹48,922 crore.
- **Timeline:** LIC has until January 24, 2025, to increase its stake to the approved 9.99%.
- **Significance:** LIC is India's largest insurance company, while HDFC Bank is the largest private sector bank in India.

**S179. Ans.(b)**

**Sol.** Navi Mumbai secured the third position in the cleanest cities category in the Swachh Survekshan Awards 2023.

**Swachh Survekshan Awards 2023-**

- **Top Two Cities:** Surat in Gujarat and Indore in Madhya Pradesh were jointly declared the cleanest cities.
- **Award Presentation:** The awards were given by President Droupadi Murmu.
- **Indore's Record:** Indore has been the cleanest city for the seventh consecutive year.
- **State Rankings:** Maharashtra ranked first, followed by Madhya Pradesh and Chhattisgarh in terms of clean states.

**S180. Ans.(d)**

**Sol.** India added five more wetlands as Ramsar sites, increasing the **total to 80 Ramsar sites** in the country.

- **Newly Added Sites:** Three sites are in Karnataka – Ankasamudra Bird Conservation Reserve, Aghanashini Estuary, and Magadi Kere Conservation Reserve; two sites are in Tamil Nadu – Karaivetti Bird Sanctuary and Longwood Shola Reserve Forest.
- **Ramsar Coverage:** The total area covered under Ramsar sites in India is now 1.33 million hectares, an increase of 5,523.87 hectares from the previous 1.327 million hectares.
- **State Rankings:** Tamil Nadu has the most Ramsar sites with 16, followed by Uttar Pradesh with 10 sites.

**S181. Ans.(b)**

**Sol.** Hard disks and cloud storage are valid storage devices. Hard disks provide local physical storage, while cloud storage allows users to save data remotely and access it via the internet.

**Information Booster:**

1. Hard disks and cloud storage are critical for data management.
2. Hard disks store data locally on physical hardware, while cloud storage provides the flexibility of accessing data from anywhere using the internet.

**Additional Knowledge:**

- CPUs handle processing tasks, and RAM is volatile memory.
- Printers and scanners are peripherals, not storage devices.
- Mice and keyboards are input devices, not for storing data.
- Web browsers and operating systems are software, not storage solutions.

**S182. Ans.(a)**

**Sol.** In Excel, the **Shift + F11** shortcut is used to insert a new worksheet. This function allows users to add sheets quickly without navigating through menus, improving efficiency in workbook management.

**Information Booster:**

1. The Shift + F11 shortcut in Excel is a handy tool for quickly adding new worksheets to a workbook.
2. It is particularly useful for users handling large datasets across multiple sheets.

**Additional Knowledge:**

- Ctrl + F11 inserts a macro sheet, not a worksheet.
- Alt + F11 opens the Visual Basic editor for macro programming.
- F12 opens the "Save As" dialog box for saving the workbook.

**S183. Ans.(c)**

**Sol.** In flowcharts, the **diamond symbol represents decision points**, indicating that the flow can branch into different paths based on a yes/no or true/false condition.

**Information Booster:**

1. A diamond is used to indicate a decision in a flowchart.
2. This symbol is vital for illustrating processes that involve multiple outcomes depending on certain conditions.

**Additional Knowledge:**

- Rectangles are used to represent process steps.
- Ovals mark the start or end points of the flowchart.
- Parallelograms represent input/output operations.
- Arrows show the flow **Solutions** within the chart.

**S184. Ans.(a)**

**Sol.** Pressing Ctrl + N in MS Word creates a **new blank document**, which is a quick and efficient way to start fresh when working on multiple projects or documents.

**Information Booster:**

1. Using the Ctrl + N shortcut opens a new blank document, streamlining the process of starting new tasks.
2. It helps users maintain productivity by minimizing the time spent navigating through menus.

**Additional Knowledge:**

- New tables and charts are inserted through the "Insert" tab, not with this shortcut.
- New pages are added with Ctrl + Enter for a page break.
- Folders are created in the file explorer, not within Word.

**S185. Ans.(c)**

**Sol.** A **Wide Area Network (WAN)** is a telecommunications network that covers large geographical areas. It connects multiple smaller networks, such as LANs, over long distances, enabling communication between different locations.

**Information Booster:**

- WAN is used to connect various smaller networks (like LANs) over a broad geographical area, often spanning cities or even countries.
- WANs are essential for businesses operating across multiple locations.

**S186. Ans.(a)**

**Sol.** In Excel, text is **automatically left-aligned** when entered into a cell. This helps keep text separate from numeric data, which is right-aligned, ensuring a structured and organized display.

**Information Booster:**

1. The left alignment of text in Excel makes it easier to distinguish text from numbers.
2. This default behavior is important for maintaining readability and ensuring that users can quickly differentiate between data types.

**Additional Knowledge:**

- Center alignment is not the default but can be applied manually.
- Right alignment is used for numbers, not text.
- Justify alignment is for even text distribution across a cell.
- Left alignment helps to maintain consistency in text presentation.

**S187. Ans.(c)**

**Sol.** External ports allow the **connection of peripherals like keyboards**, printers, and USB drives to the computer system. These connections are essential for data transfer and interaction between the system and external devices.

**Information Booster:**

1. External ports, such as USB ports, provide a bridge between the computer and external devices, facilitating communication and data transfer.
2. They are designed to handle various peripherals and are a key part of a computer's expandability.

**Additional Knowledge:**

- Internal components such as hard drives use internal ports, not external ones.
- Network connections involve Ethernet ports or wireless technologies.
- Electrical outlets supply power but are not used for data transfer.
- Wireless devices like Bluetooth speakers connect without using physical ports.

**S188. Ans.(d)**

**Sol.** Excel formulas **cannot return multiple results in the same cell**. Formulas are designed to return a single result in the cell where they are entered. To return multiple results, users can use multiple cells.

**Information Booster:**

1. Excel formulas allow users to perform calculations, reference other cells, and use functions like SUM () and AVERAGE ().
2. They follow basic mathematical principles and order of operations.

**Additional Knowledge:**

- Formulas in Excel begin with an equal sign and can perform calculations using arithmetic operators.
- Functions like VLOOKUP () and IF () are often used within formulas for more advanced operations.

**S189. Ans.(a)**

**Sol.** In **Microsoft Excel 2021**, a workbook contains **1 worksheet** by default. Users can add more worksheets as needed, but the initial workbook starts with a single sheet.

**Information Booster:**

1. Starting from **Excel 2013**, Microsoft reduced the default number of worksheets in a new workbook to **1** to streamline the interface and optimize performance.
2. Additional worksheets can be added manually as per user requirements.

**Additional Knowledge:**

- Prior to **Excel 2013**, the default number of worksheets in a new workbook was **3**.
- Users can change the default number of worksheets when a new workbook is created by adjusting Excel settings.

**S190. Ans.(a)**

**Sol.** The **BASE properties stand for Basic Availability, Soft state and Eventual consistency**. These properties are often associated with NoSQL databases, which focus on scalability and availability rather than strict consistency.

**Information Booster:**

Unlike ACID properties, which are used in traditional relational databases, BASE properties prioritize availability and scalability over immediate consistency, making them suitable for distributed systems.

**Additional Knowledge:**

- BASE stands in contrast to ACID, which focuses on strict consistency and reliability in transactions.
- NoSQL databases like Cassandra and DynamoDB often use the BASE model.
- Eventual consistency means that the system will become consistent over time, but not immediately after every transaction.

**S191. Ans.(a)**

**Sol.** The **Kernel** is responsible for managing the file system, along with other critical system resources like memory, processes, and device management.

**Information Booster:**

The kernel is the core component of the operating system that directly interacts with the hardware, manages system resources, and ensures smooth execution of applications.

**Additional Knowledge:**

- The scheduler manages the execution of processes.
- The shell is the user interface that allows communication with the OS.
- The loader loads programs into memory for execution.
- Cache is used for temporary storage to speed up data access.

**S192. Ans.(c)**

**Sol.** **iOS** is a closed-source operating system developed by Apple. Its source code is not available to the public, and it is tightly controlled by Apple, only available on their hardware devices.

**Information Booster:**

iOS is known for its security and integration with Apple's ecosystem, but it does not allow modification of its source code, which classifies it as a closed-source OS.

**Additional Knowledge:**

- Linux and Android are open-source operating systems.
- Ubuntu and FreeBSD are also open-source, allowing modifications and distributions.
- Closed-source systems like iOS are proprietary, meaning only the owning company can modify the code.

**S193. Ans.(d)**

**Sol.** A **compiler** is not a type of malware; it is a program that converts high-level programming code into machine code. Malware, on the other hand, refers to software designed to harm or exploit computer systems.

**Information Booster:**

Malware includes a wide variety of malicious software, such as viruses, spyware, adware, and ransomware, all of which are designed to disrupt, damage, or gain unauthorized access to systems.

**Additional Knowledge:**

- A virus infects and replicates across files and systems.
- Spyware collects data from a user without their knowledge.
- Adware displays unwanted advertisements.
- Ransomware encrypts data and demands payment to restore access.

**S194. Ans.(e)**

**Sol.** **Margins** are not a type of text formatting. Margins define the space between the text and the edges of the paper in a document, whereas bold, underline, strikethrough and italics are all formatting options that affect how text appears.

**Information Booster:**

1. Text formatting refers to the changes made to the appearance of text, such as bolding, italicizing, or underlining.
2. Margins, however, are part of page layout settings, not text formatting.

**Additional Knowledge:**

- Bold makes the text thicker and darker.
- Underline adds a line beneath the text.
- Strikethrough draws a line through the middle of the text.
- Italics slant the text to the right.

**S195. Ans.(d)**

**Sol.** **Subscript** is not a paragraph alignment style in MS Word. It is a character formatting style where text is positioned slightly below the baseline, often used in mathematical notations or chemical formulas.

**Information Booster:**

1. Subscript alters the position of text in relation to the baseline but is not related to aligning paragraphs.
2. Common paragraph alignments in MS Word are left, center, right, and justify.

**Additional Knowledge:**

- Left alignment aligns the text to the left margin.
- Center alignment places the text in the middle of the page.
- Justify ensures that the text is aligned evenly on both sides.
- Right alignment aligns the text to the right margin.

**S196. Ans.(d)**

**Sol.** A **barcode scanner** is an input device used to capture and input data into a computer system by reading barcodes. It is not responsible for producing output but rather for providing input data.

**Information Booster:**

1. Barcode scanners are used for scanning barcodes and converting them into digital data.
2. They are a critical part of retail and inventory management systems, helping to automate data entry.

**Additional Knowledge:**

- Monitors, printers, and plotters are output devices used for displaying or printing information.
- Speakers are used to output sound from the computer.
- Output devices receive data from the computer and produce some form of output, such as visuals, print, or sound.

**S197. Ans.(d)**

**Sol.** The fourth generation of computers introduced **microprocessors**, which integrated all CPU functions into a single chip, making computers more powerful, compact, and affordable than previous generations.

**Information Booster:**

1. The microprocessor was a key advancement in the fourth generation of computers.
2. It allowed for the creation of personal computers and dramatically increased computing power while reducing cost and size.

**Additional Knowledge:**

- Vacuum tubes were used in the first generation of computers.
- Integrated circuits belong to the third generation.
- Transistors were used in the second generation.
- Artificial Intelligence is a software development that spans multiple generations.

**S198. Ans.(d)**

**Sol.** Microsoft developed the **Windows operating system**, which has become one of the most widely used OS platforms in the world, offering a range of versions from home to professional and server editions.

**Information Booster:**

Windows OS, created by Microsoft, is known for its user-friendly interface, wide range of software compatibility, and global presence in both personal and professional environments.

**Additional Knowledge:**

- Android is developed by Google, mainly for mobile devices.
- macOS is the operating system designed by Apple for its Mac computers.
- Linux is an open-source OS developed by Linus Torvalds.
- UNIX is a family of operating systems developed in the 1970s.

**S199. Ans.(a)**

**Sol.** **SSDs provide faster data retrieval and storage compared to HDDs.** They use flash memory, which makes them more efficient in terms of speed and power consumption, especially in modern computing devices.

**Information Booster:**

SSDs offer significant performance improvements over traditional HDDs, making them ideal for faster data access, quicker boot times and better overall system performance.

**Additional Knowledge:**

- SSDs are generally more expensive than HDDs, not cheaper.
- SSDs tend to have a longer lifespan as they have no moving parts, reducing mechanical failures.
- SSDs are more reliable than HDDs, especially in portable devices.

**S200. Ans.(c)**

**Sol.** The shortcut to decrease font size in Microsoft Word is **Ctrl + [**. This allows users to quickly reduce the size of the selected text without using the font size menu.

**Information Booster:**

1. Shortcuts in Word help increase efficiency, and Ctrl + [ is specifically designed to decrease the font size in the document.
2. It can be repeated to continuously reduce the font size.

**Additional Knowledge:**

- Ctrl + ] increases the font size.
- Ctrl + Shift + ) is not a recognized shortcut for font changes.
- Ctrl + Shift + ] does not perform a font size operation.
- Ctrl + < is not used for changing font size.