

SBI PO Pre 2025 Memory Based Paper Based on 4th August 1st Shift

Directions (1-6): In the following passage, there are blanks, each of which has been denoted by a letter. For each blank, five options are given. Choose the most appropriate word from the options that fits the blank appropriately.

The controlled use of fire represents one of humanity's most _____ (A) technological breakthroughs. Anthropologists believe our ancestors first _____ (B) fire naturally caused by lightning strikes or volcanic activity. This accidental discovery eventually led to the _____ (C) of techniques for creating and maintaining flames.

Early humans lived in a harsh environment, first intention marked a — millennia, of sophisticated fundamentally

Q1. Which of the following is not a function of the endoplasmic reticulum?
(A).

- (a) trivial
(b) seminal
(c) negligible
(d) redundant
(e) derivative

Q2. Which of the following is a function of the endoplasmic reticulum?
(B).

- (a) extinguished
(b) harnessed
(c) squandered
(d) circumvented
(e) deprecated

Q3. Which of the following is not a function of the
(C).

- (a) dissolution
(b) revocation
(c) culmination
(d) prohibition
(e) inception

Q4. Which of the following words will fit in the given blank (D).

- (a) pacified
(b) transmute
(c) stabilized
(d) sterilized
(e) obliterated

Q5. Which of the following words will fit in the given blank (E).

- (a) perfunctory
- (b) pivotal
- (c) arbitrary
- (d) nominal
- (e) sporadic

Q6. Which of the following words will fit in the given blank (F).

- (a) manipulate

ed into parts.
the part that

/ has received
/ from the

ed into parts.
the part that

(B)/ will have

Q9. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error.

The manager insisted (A)/ that the reports be submitted (B)/ before noon, as punctuality (C)/ was something he considered to be. (D)/ No error

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

Q10. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error.

The officer was unaware (A)/ that his assistant had (B)/ already submitted the documents (C)/ before he reach the office. (D)/ No error

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

Q11. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error.

He was neither (A)/ to spend the money (B)/ to spend the money (C)/ to spend the money (D)/ to spend the money (E) No error

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

Q12. Select the most appropriate option that can substitute the highlighted segment in the given sentence. If there is no need to substitute it, select 'No replacement required'.

Were she to have been (A)/ to have been (B)/ to have been (C)/ to have been (D) No replacement required

- (a) If she disclosed the truth
- (b) If she will disclose the truth
- (c) If she was to disclose the truth
- (d) If she had disclosed the truth
- (e) No replacement required

Q13. Select the most appropriate option that can substitute the highlighted segment in the given sentence. If there is no need to substitute it, select 'No replacement required'.

It is essential that every athlete **completes their registration before the deadline.**

- (a) completed their registration before the deadline
- (b) complete their registration before the deadline
- (c) completes his registration before the deadline
- (d) should be completing their registration before the deadline
- (e) No replacement required

Q14. Select the most appropriate option that can substitute the highlighted segment in the given sentence. If there is no need to substitute it, select 'No replacement required'.

He narrowly escaped **to be arrested by the border guards** while crossing the checkpoint.

- (a) being arrested by the border guards
- (b) to being arrested by the border guards
- (c) to have been arrested by the border guards
- (d) having arrested by the border guards
- (e) No replacement required

Q15. Select the most appropriate option that can substitute the highlighted segment in the given sentence. If there is no need to substitute it, select 'No replacement required'.

He eventually **came**

passage and

not only by its science, and well- systems from a infrastructure, ents in human and healthcare is that wealth al cannot sustainably w natural resource- e surges, but thy workforce, cation equipments innovation, care, in turn,

ensures that citizens can contribute productively over the long term, reducing absenteeism and lowering the economic burden of disease.

For example, some resource-dependent nations have taken steps to diversify their economies by _____ revenue into schools, training centers, hospitals, and public health programs. Angola, in recent years, has made efforts to invest in education and healthcare to reduce its dependency on oil exports. By enhancing human capital, it aims to strengthen productivity and attract investment in sectors beyond its primary industries. While challenges remain, such measures show the potential for transforming short-term gains into lasting national strength.

However, the global economic environment remains uncertain. Trade disruptions, fluctuating commodity prices, and geopolitical tensions can **stall** development plans, even in countries with ambitious social investment strategies. A **grim** example is when external shocks force governments to cut back on essential public spending, undermining years of progress in education and health sectors. The capacity to withstand such shocks depends heavily on diversified economies and robust fiscal planning.

National strength, therefore, is not built overnight. It requires consistent policies, transparent governance, and the vision to balance immediate economic needs with long-term development goals. By fostering a population that is educated, healthy, and skilled, nations can better ensure resilience in the face of global uncertainties.

In conclusion, achieving sustainable development requires a solid social foundation. Investing in human capital through education and healthcare is not just a moral imperative but a strategic necessity. For resource-rich countries, diversifying away from extractive industries and strengthening infrastructure in rural and coastal areas are key to ensuring long-term prosperity for all citizens.

Q16. According to the passage, what is a major risk of relying solely on oil exports for economic growth?

(a) It encourages excessive government spending on infrastructure projects.
 (b) It results in high unemployment rates, particularly in agriculture.
 (c) It provides a stable source of revenue, allowing for consistent institutional advancement.
 (d) It reduces the need for economic reforms and hinders diplomatic relations.
 (e) It ensures that countries focus excessively on education and ignore industrial growth.

Q17. Which of the following is a key challenge in healthcare, as mentioned in the passage?

(a) Reducing public health expenditure and urban migration.
 (b) Ensuring long-term productivity by lowering disease burden and absenteeism.
 (c) Increasing competitiveness in manufacturing exports and international tourism.
 (d) Redirecting public funding from education to disease surveillance.
 (e) Achieving better diplomatic ties through global medical collaborations.

Q18. Which of the following is **NOT** a factor contributing to national strength as per the passage?

(A) Investment in human capital such as education and healthcare.

(B) Strong governance that ensures consistent and transparent policy-making.

(C) High dependence on a single export-oriented sector for economic growth.

- (a) Only A
 (b) Both B and C
 (c) Only C
 (d) Both A and B
 (e) All A, B, C

Q19. Identify the **correct statements** based on the passage:

(A) Angola has been attempting to reduce dependence on oil by investing in people.

(B) Global uncertainties make social investment in healthcare and economic diversification a high priority for Angola.

Q20. Choose the most appropriate synonym for the word "glare".

- (a) Observe
 (b) Hide
 (c) Subtle
 (d) Dismiss

Q21. Choose the most appropriate synonym for the word "dilatory".

- (a) Delay
 (b) Promote
 (c) Encourage

Q22. Select the word that is **NOT** a given filler.

- (a) hoarding
 (b) diverting
 (c) exhausting
 (d) concealing
 (e) channeling

Q23. Choose the most appropriate **antonym** for the word "grim" as used in the passage.

- (a) Harsh
 (b) Bright
 (c) Serious
 (d) Gloomy
 (e) Bleak

Q24. Select the most appropriate option to fill in the blanks.

The monk's teachings, though ancient, still _____ relevance today and continue to _____ seekers across the globe.

- (a) retain, inspire
- (b) attain, infuse
- (c) detain, revive
- (d) reclaim, console
- (e) preserve, enlighten

Q25. Select the most appropriate option to fill in the blanks.

The army commander's decision was _____, made without full information, and it _____ the entire mission.

- (a) abrupt, jeopardized
- (b) trivial, compromised
- (c) relevant, informed
- (d) delayed, fostered
- (e) reckless, derailed

Q26. Select the most appropriate option to fill in the blanks.

The writer's last chapter _____ the story carefully _____.

- (a) paradox, highlighted
- (b) portrayal, depicted
- (c) blend, crafted
- (d) dream, illustrated
- (e) merger, dictated

Q27. Select the most appropriate option to fill in the blanks.

The environmental report _____ that the region will face severe drought _____ large water reserves.

- (a) assures, neglects
- (b) foresees, taps
- (c) proposes, exploits
- (d) advocates, conserves
- (e) predicts, renews

Q28. In the following question, a sentence is divided into few parts. Rearrange these parts and identify the correct sequence making the sentence grammatically and contextually correct.

- (A) for improving
- (B) student discipline
- (C) announced a new policy
- (D) the school principal
- (a) BADC
- (b) DABC
- (c) DCAB
- (d) BCAD
- (e) No rearrangement required

Q29. In the following question, a sentence is divided into few parts. Rearrange these parts and identify the correct sequence making the sentence grammatically and contextually correct.

- (A) levels in the city
- (B) on reducing pollution
- (C) the new law had
- (D) a significant effect
- (a) ADBC
- (b) ACBD
- (c) BDAC
- (d) CDBA
- (e) No rearrangement required

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meaningful
given below

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very timelines

(C) Meanwhile, orange juice prices spiked as Florida and Brazil, two major producers, battled diseases like citrus greening and hurricane damage.

(D) Over the past year, global prices of both coffee and orange juice have surged significantly due to climate-related disruptions.

(E) This comparative trend highlights how different agricultural vulnerabilities can cause varied price trajectories in global commodities.

(F) Coffee-producing regions in Brazil faced severe droughts and unexpected frosts, leading to lower crop yields and higher prices.

Q31. Which of the following should be the FIRST sentence after rearrangement?

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

Q32. Which of the following should be the SECOND sentence after rearrangement?

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

Q33. Which sentence after

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

Q34. Which sentence after

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

Q35. Which sentence after

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

Directions (36-38): In the following question, a sentence is given with a few highlighted words that may be incorrectly placed. Rearrange these words to form a sentence that is both grammatically correct and contextually meaningful. Then, choose the option that represents the correct sequence of the highlighted words.

Q36. The stock sector (A) closed higher today, driven by gains (B) in the banking market (C).

- (a) BAC
- (b) CAB
- (c) ACB
- (d) CBA
- (e) BAC

Q37. Several airport

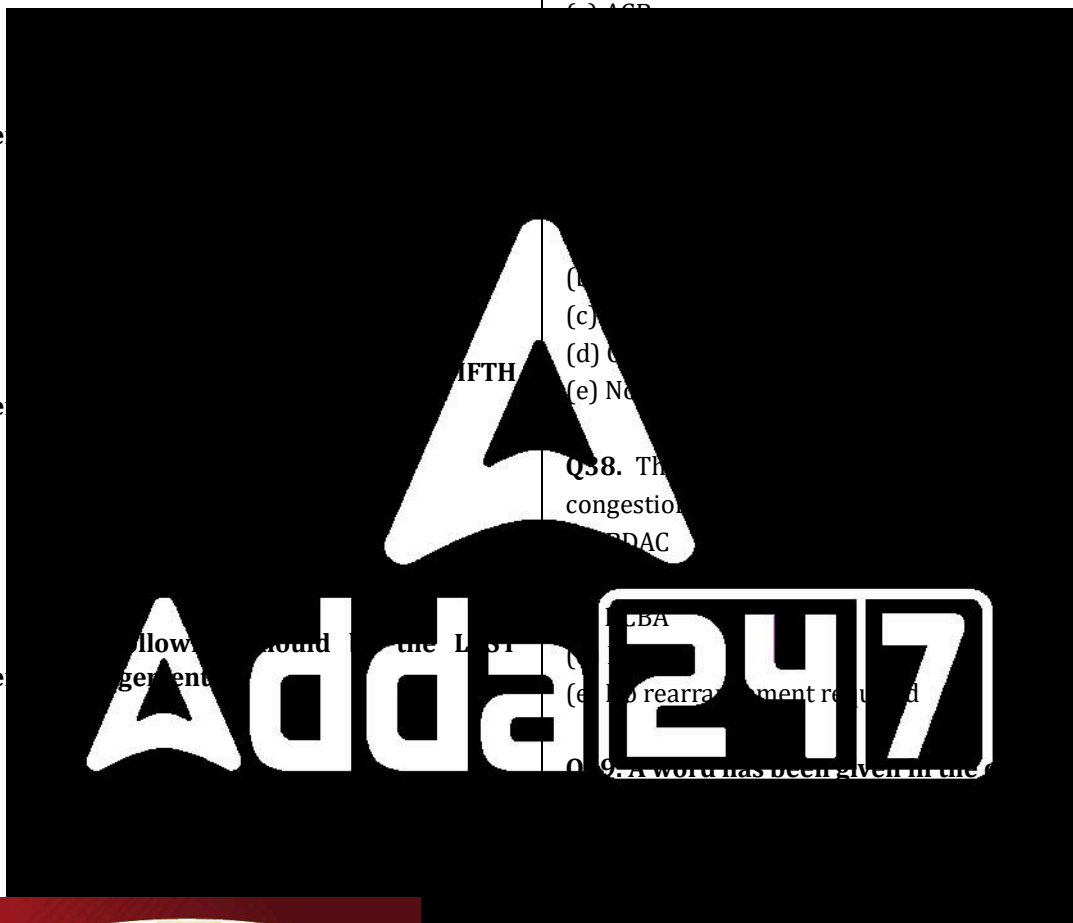
- (a) D
- (b) C
- (c) F
- (d) E
- (e) A

Q38. The congestion (A) in the city (B) has increased (C) due to the increase in traffic (D) and the lack of public transport (E).

- (a) BAC
- (b) CAB
- (c) ACB
- (d) CBA
- (e) BAC

Q39. A word has been given in the following sentence which is not used in the sentence. Choose the option which is grammatically correct.

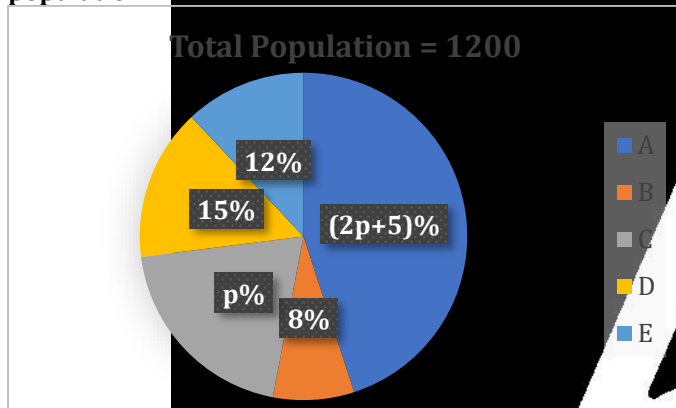
- (a) Only (A)
- (b) Only (B)
- (c) Both (A) and (B)
- (d) All of these
- (e) Both (A) and (C)



Q40. A word has been given in the question and used in the sentences below. Identify the statements where the word has been used in a contextually and grammatically correct manner. GAIT

- (I) The security guard stood at the **school gait** to check the identity cards of visitors.
 (II) The doctor assessed the patient's **gait** to check for any signs of mobility issues. (III) The **entrance gait** to the park was decorated with colorful lights for the festival.
 (a) Only (I)
 (b) Only (II)
 (c) Both (I) and (II)
 (d) All of these
 (e) Both (II) and (III)

Directions (4)
population in



Q41. In city F,
the total popu
less than the
total popula
percentage of
 (a) 152.5%
 (b) 118.46%
 (c) 122.22%
 (d) 134.30%
 (e) 142.29%

Q42. Find t
population of
 (a) 290
 (b) 119
 (c) 120
 (d) 192
 (e) 129

Q43. In C, the ratio of male and females is 2:5 and female to children is 1:1. Find the ratio of children in C to total population of E.
 (a) 36:11
 (b) 21:19
 (c) 22:21
 (d) 23:36
 (e) 25:36

Q44. The population of cities D and E is what percentage more/less than the total population of A and C

- (a) 53.20
 (b) 58.46%
 (c) 52.22%
 (d) 54.30%
 (e) 42.29%

Q45. Out of the total population of all the cities 35% are females and 55% of the total population of city D are females. Total females in all the cities except D is how many more/ less than total population of A.

- (a) 200
 (b) 219

and answer
 (i.e 100) three
 The ratio of
 the people who
 only tea and
 beverages are
 together is 30%
 coffee and milk
 together 20,
 y tea.

like only one

milk is what
 ee beverages

- (a) 314.25%
 (b) 331.35%
 (c) 321.21%
 (d) 315.22%
 (e) 310.12%

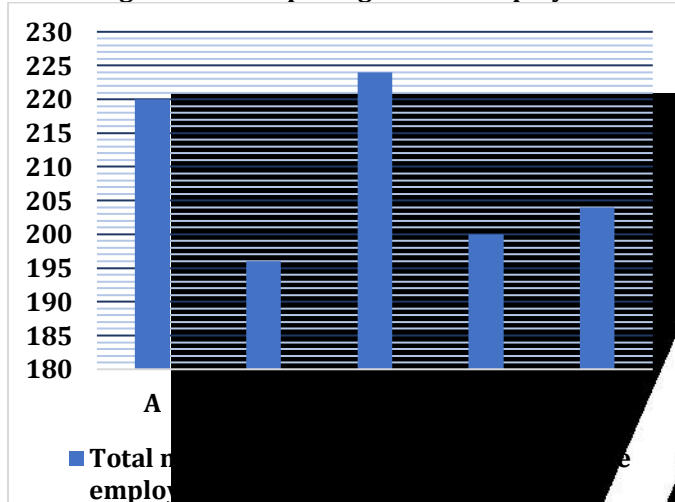
Q48. Find the ratio of people who like only two beverages together to who like only coffee.

- (a) 14:11
 (b) 7:10
 (c) 2:19
 (d) 19:2
 (e) 10:7

Q49. Find the difference between people who like milk and tea.

- (a) 14
- (b) 12
- (c) 21
- (d) 15
- (e) 10

Directions (50 – 55): Bar graph given below shows the total number of graduate and post graduate employees in five different companies. Table shows the difference between graduate and posts graduate employees.



Companies	Employees
A	
B	
C	
D	
E	

Note – Total employees = Graduate + Post Graduate Employees
Graduate employees are more than Post Graduate Employees

Q50. Find the difference between graduate employees and post graduate employees in company A.

- (a) 41
- (b) 31
- (c) 43
- (d) 33
- (e) 32

Q51. The ratio of manager to associate in company A is 7 : 4, the female manager in A is 16.67% of that of males. Find the difference between male manager in A and total associate in A?

- (a) 30
- (b) 31
- (c) 22
- (d) 39
- (e) 40

Q52. In company X, the total employees are average number of employees in A, C and E. The ratio of graduate employees in A and X is 1:1. Find the ratio of post graduate employees in X and graduate employees in E?

- (a) 30:31
- (b) 57:31
- (c) 22:57
- (d) 52:75
- (e) 75:52

Q53. Find the difference between graduate employees and post graduate employees in all the companies?

uated is 50, 20 more than who are post re/ less than

- (a) 13.18%
- (b) 31.31%
- (c) 22%
- (d) 28.18%

Q54. In company A, the total graduate employees are 121 more than post graduate employees. Find the total number of employees in A.

- (e) 32

Q56. A vessel contains 139.96 litres of a mixture of milk and water, where 80% is milk. If 24.96% of the mixture is removed and 19 litres of water is added, what is the percentage of water in the resultant mixture (approximate)?

- (a) 48
- (b) 24
- (c) 36
- (d) 32
- (e) 40

Q57. A and B together can do a work in $2T$ days and A alone can do the same work in 10 days. If B alone can do the work in $5T$ days, then find the value of T ?

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

Q58. A man spends 12% of his monthly salary on education and 7% on rent. He invests Rs. 10250 of his salary in a SIP and saves $4x\%$ of his salary. If his total monthly salary is Rs. 25000, then find the value of x ?

- (a) 5
- (b) 15
- (c) 12
- (d) 10
- (e) 6

Directions (57-60). In each of these questions, two equations (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

**Q59. I: $x^2 - 20x + 100 = 0$
II: $y^2 - 28y + 196 = 0$**

**Q60. I: $x^2 - 24x + 144 = 0$
II: $y^2 - 13y + 42 = 0$**

**Q61. I: $3x^2 - 10x + 7 = 0$
II: $y^2 - y - 6 = 0$**

Q62. The present age of Z is 25% more than the present age of X, then find the age of Z six years ago?

- (a) 26 years
- (b) 22 years
- (c) 20 years
- (d) 24 years
- (e) 28 years

Q63. The ratio of the still water speed of boat A and boat B in is 4:5 respectively. The speed of current is 15 km/hr. Boat A takes 4.5 hours to travel 180 km downstream. Find the time taken by boat B to travel 120 km upstream?

- (a) 20 hours
- (b) 36 hours
- (c) 24 hours
- (d) 12 hours
- (e) 8 hours

Q64. A and B invest in a partnership business in the ratio of 3:4 and A got Rs.2700 as a profit share out of total profit of Rs. 5100 and the difference between the time period between A and B is 3 months, then find for how many months A kept his investment?

- (a) 6
- (b) 3

Q65. Two trains of equal length are running in opposite directions on parallel tracks. They cross each other in 40 seconds. If train A has a speed of 40 km/hr, then find the length of each train.

- (a) 30 m
- (b) 40 m
- (c) 45 m
- (d) 54 m
- (e) 24 m

Q66. A invested Rs. X in scheme A which offers simple interest at the rate of 10% p.a. for 3 years and he received an interest of Rs. 600. B invested Rs. (500) invest in scheme B which offers simple interest at the rate of 12% p.a. for two years. Find the interest received by B from scheme B?

- (a) Rs.870
- (e) Rs.1050

Q67. The average weight of 'X' boys in a class is 40 kg and average weight of 18 girls in the same class is 25 kg. If total weight of the class is 1410 kg, then find the value of $2.5X$?

- (a) 54
- (b) 48
- (c) 36
- (d) 72
- (e) 60

Q68. The difference between the circumference of circle P and circle Q is 132 cm. If radius of circle Q is 4 times of radius of circle P, then find the area of circle Q (in square cm)?

- (a) 2404
- (b) 2464
- (c) 2214
- (d) 2004
- (e) 2124

Q69. A retailer marks up an article 35% above its cost price and earn Rs 96 by giving 20% discount on the marked price. If he sells article at 15% discount on marked price, then find the profit on the article?

- (a) 118
- (b) 177
- (c) 236
- (d) 214
- (e) 154

Q70. If ratio between the radius of sphere is 2 : 3, then find the ratio of their surface area.

- (a) 2 : 1
- (b) 5 : 2
- (c) 4 : 1
- (d) 3 : 2
- (e) 7 : 2

Directions (21-25): Read the following information carefully and answer the questions given below.

Nine boxes - A, B, C, D, E, F, G, H and I are kept one above another in a stack. Box A is kept at the bottom. Box I is kept at the top. Box D is kept immediately below box A. Box E is kept above box D. Box F is kept immediately below box C. Only two boxes are kept between box A and box F. Box B is kept above box A.

Q71. Which among the following box is placed five boxes below box C?

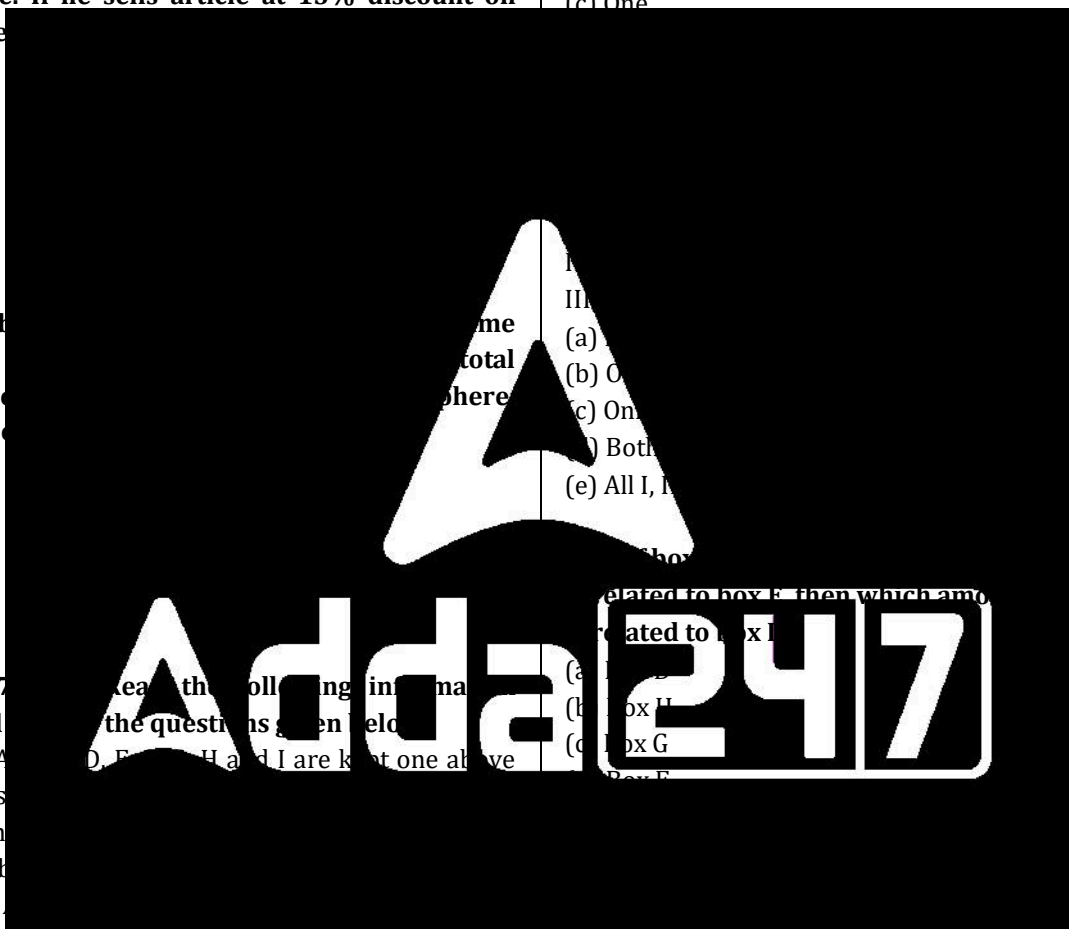
- (a) Box I
- (b) Box E
- (c) Box H
- (d) Box B
- (e) Box G

Q72. How many boxes are kept above box A?

- (a) Two
- (b) Four
- (c) Six
- (d) Three
- (e) Five

Q73. If all the boxes are arranged in alphabetical order from bottom to the top in alphabetical order, then how many boxes will not change their position?

- (a) Two
- (b) Four
- (c) One



Below, some statements are given followed by two conclusions numbered I and II. 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 logically follows from the given statements, disregarding commonly known facts. Give answer -

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either conclusion I or II follows
- (d) If neither conclusion I nor II follows
- (e) If both conclusions I and II follow

Q76. Statements: Only a few publish is rolls
Some rolls is account
Some account is demand

Conclusions:

- I. No rolls is demand
- II. Some publish being demand is a possibility

Q77. Statements: Only a few asset is revenue
Some revenue is equity
No equity is fiscal

Conclusions:

- I. Some revenue is not fiscal
- II. All asset being fiscal is a possibility

Q78. Stateme

Some notice is
All expenditur

Conclusions:

- I. Some notice
- II. No profit is

Q79. How ma

'NOSTALGIA',
them as they
forward and b

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

Q80. If we form better meaningful word using the 3rd, 6th, 7th, 9th and 10th letter from the left end of the word

"FABRICATING"

the left end of
is formed, m
meaningful wo

- (a) C
- (b) I
- (c) A
- (d) X
- (e) Z

Directions (81-85): Read the given information carefully and answer the related questions:

Seven persons P, Q, R, S, T, U and V - do different activities in seven different months i.e., January, March, April, June, July, August and November. The activities are - Yoga, meditation, dancing, hiking, cycling, camping and reading.

Cycling is done in the month of 30 days. Three persons are in between S and the one who does cycling. One person is in between S and T. Number of persons after T is same as before the one who does Yoga. P is just before the one who does dancing. More than three persons are in between P and V who does meditation. Hiking is done in the month of 30 days before R. Reading is done before Q who does not do hiking.

Q81. Who among the following does his activity in June?

- (a) U
- (b) T
- (c) R

Q83.

- (a) P - Yoga
- (b) S - Yoga
- (c) T - Camping
- (d) V - Meditation

Q84. Which of the following statements is correct?

- (a) Two persons are in between P and Q
- (b) Reading is done in November
- (c) Who does hiking in June
- (d) R does meditation in June

- (a) June
- (b) August
- (c) January
- (d) July
- (e) March

Directions (86-90): Read the given information carefully and answer the questions given below:

14 persons sit in two parallel rows containing seven persons in each row. A, B, C, D, E, F and G - sit in row 1 and face north while P, Q, R, S, T, U and V - sit in row 2 and face south. But not necessarily in the same order. Persons of row 1 face the persons of row 2.

Three persons sit between B and D. D sits at one of the ends. Two persons sit between Q and the one who faces B. One person sits between Q and T. U sits fourth to the right of S but does not sit opposite to D. One person sits between A and the one who faces S. G sits immediate right of C. P does not face C. Number of persons sit to the right of F and V are equal.

Q86. How many persons sit between R and P?

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

Q87. Who am

- (a) R
- (b) T
- (c) Q
- (d) P
- (e) S

Q88. Which o

- I. P faces G
- II. One person
- III. R sits at on
- (a) Only I
- (b) Only II
- (c) Only II and
- (d) Only I and
- (e) All are true

Q89. Four of the following five pairs are similar in a certain manner. Which of the following is different?

- (a) S - C
- (b) Q - F
- (c) V - G
- (d) P - A
- (e) R - C

Q90. If the persons of row 1 are made to sit in alphabetical order from left, then who will remain at his previous position?

- (a) Only B and F
- (b) Only F
- (c) Only A
- (d) Only B and E
- (e) No one

Directions (91-95): Read the given information carefully and answer the related questions:

Seven persons K, L, M, N, O, P and Q - were born (not in given order) on same date of same month but in different year - 1955, 1961, 1972, 1987, 1998, 2006, 2017. Consider base year 2025 for age calculation.

M's age is the cube of a number. 11 years difference between M and K. Three persons are in between K and P. N is 32 years older to Q. L's age is the cube of a number. Age difference between L and K is more than 10 years.

Q91. How many persons are older to O?

- (a) One

Q92. Who is born in 1972?

- (a) K
- (b) L
- (c) M
- (d) N
- (e) None

Q93. Who is born in 1955?

- (a) K
- (b) L
- (c) M
- (d) N
- (e) None

Q94. Four of the following five are similar in a certain manner. Which of the following is different?

- (a) S - C
- (b) Q - F
- (c) V - G
- (d) P - A
- (e) R - C

Q95. The one who is just younger to O, was born in which year?

- (a) 1972
- (b) 1987
- (c) 2006
- (d) 1998
- (e) 2017

Directions (96-100): Study the following information carefully and answer the questions given below:

Seven persons - A, B, C, D, E, F and G sit around a circular table and face the centre. Each of them is from different city- Jaipur, Meerut, Pune, Agra, Bhopal, Ranchi and Surat. All the information given below is not necessarily in the same order.

C sits second to the right of the one who is from Jaipur. Three persons sit between the ones who is from Jaipur and Pune. G sits fifth to the left of the one who is from Pune and is an immediate neighbour of the one who is from Agra. E sits second to the left of the one who is from Agra. D sits fourth to the right of the one who is from Jaipur. F and the one who is from Bhopal are immediate neighbours. G sits second to the right of the one who is from Jaipur.

Q96. Who sits second to the right of the one who is from Jaipur?

- (a) The one who is from Jaipur
- (b) The one who is from Pune
- (c) B
- (d) G
- (e) The one who is from Agra

Q97. Which of the following combinations is correct?

- (a) E – Jaipur
- (b) F – Meerut
- (c) G – Agra
- (d) D – Pune
- (e) C – Bhopal

Q98. What is the position of the person who is from Surat with respect to A?

- (a) Second to the right
- (b) Fourth to the left
- (c) Fifth to the right
- (d) Fifth to the left
- (e) Fourth to the right

Solutions

S1. Ans.(b)

Sol. The word that can be filled in the blank is 'inception' to make the sentence grammatically and contextually correct. 'Seminal' means influential or original, having a strong influence on later developments (प्रभावशाली / प्रेरणादायक).

As per the context, the word 'inception' is the best fit in human progress.

Meanings of other given words and why they are incorrect:

Trivial – unimportant (तुच्छ)

Negligible – too small to be considered (नगण्य)

Redundant – unnecessary or superfluous (अनावश्यक)

Derivative – imitative or not original (अनुकृति)

Thus, none of these conveys the ground-breaking importance intended here.

S2. Ans.(b)

Sol. The word that can be filled in the blank is 'harnessed' to make the sentence grammatically and contextually correct.

'Harnessed' means to control and make use of (something, especially a resource) (नियंत्रण में लेकर उपयोग करना).

S3. Ans.(e)

Sol. The word that can be filled in the blank is 'inception' to make the sentence grammatically and contextually correct.

'Inception' means the beginning or start of something (आरंभ / प्रारंभ).

The sentence talks about the **start** of fire-using techniques — "inception" is ideal.

Meanings of other given words and why they are incorrect:

Dissolution – ending or termination (समापन)

Culmination – final stage or peak (परिणति)

Prohibition – ban or restriction (प्रतिबंध)

Revocation – cancellation (रद्द करना)

All others refer to ending or restricting — **not starting**, hence incorrect.

S4. Ans.(e)

Sol. The word that can be filled in the blank is '**obliterated**' to make the sentence grammatically and contextually correct.

'**Obliterated**' means destroyed completely (समूल नष्ट करना). As wildfires are known for destruction, this word fits both contextually and descriptively.

Meanings of other given words and why they are incorrect:

Pacified – calmed (शान्त करना) – opposite meaning

Transmute –

Stabilized –
"wildfire".

Sterilized – m

relevant here.

Thus, only "ob

S5. Ans.(b)

Sol. The word

make the sente

'**Pivotal**' mea

निर्णायक).

Using fire int

hence "pivotal

Meanings of

incorrect:

Perfunctory –

गया)

Arbitrary – रा

Nominal – in

Sporadic – sca

These words f

sentence.

S6. Ans.(a)

Sol. The word that can be filled in the blank is '**manipulate**' to make the sentence grammatically and contextually correct.

'**Manipulate**' means to skillfully control or handle (चतुराई से नियंत्रण करना).

Here, it implies **controlling fire** for warmth, cooking, etc., so it fits perfectly.

Meanings of other given words and why they are incorrect:

Suppress – to restrain (दबाना) – doesn't suit productive use.

Relinquish – to give up (त्यागना) – contradictory.

Contaminate – to pollute (प्रदूषित करना) – irrelevant.

illogical in this

ve, purposeful

singular. The

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completed the

completed the

or", "not only...

S8. Ans.(c)

Sol. Option (c) contains an error.

The phrase "**will have cleared**" is incorrect in a third conditional sentence. The correct form should be "**would have cleared**".

This is a **third conditional** (unreal past condition):

If + past perfect, would have + V3

Grammatical rule used:

In third conditional sentences (imaginary past situations), use:

If + had + V3, then would have + V3 in the result clause.

Correct sentence:

Had she studied more attentively, she **would have cleared** the entrance test.



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Even for singular third person subjects: no -s.

Correct sentence:

It is essential that every athlete **complete** their registration before the deadline.

Example:

It is vital that she **be** present.

(Not "is present")

Booster:

Other verbs that trigger subjunctive: recommend, demand, insist, urge.

S14. Ans.(a)

Sol. Option (a) is correct.

The verb "escape" is followed by an infinitive.

The phrase "to escape" is an infinitive.

The correct form is "to escape".

Grammatical

Certain verbs

are followed by

Correct sente

He narrowly es

while crossing

Example:

She escaped b

Booster:

Other verbs al

suggest, consid

S15. Ans.(b)

Sol. Option (b)

The correct ph

to **change on**

initial opposit

The sentence

the necessary

Grammatical

Phrasal verbs

complete the

preposition leads to an error in meaning.

Correct sentence:

Despite initial resistance, the village elders eventually **came around to the proposal**.

Example:

• He didn't like the plan at first, but he **came around to it** later.

Booster:

Confusing phrasal verbs:

- **Come across** – to find by chance
- **Come forward** – to volunteer information
- **Come about** – to happen

S16. Ans.(c)

Sol. The passage clearly states:

"Natural resource-rich nations may enjoy short-term revenue surges, but without strong institutions and a skilled, healthy workforce, such progress risks becoming fragile."

This directly points to **(c)** — that resource wealth brings **short-term gains** but **fails to build long-term national strength** if not supported by institutional development and human capital investment.

- **(a)** talks about market prices, which is not mentioned.
- **(b)** and **(d)** are unrelated to the context discussed.
- **(e)** contradicts the passage; it promotes education, not

The correct answer is: **(c)**

can contribute to economic growth and reduce unemployment and

the benefit of the environment and **reducing** the risk of unsustainable

unrelated

discussed.

to mention of

passage never

S18. Ans.(c)

The passage discusses the importance of education and healthcare for **prosperity**.

The passage says that good governance, transparent

governance."

Statement C is **NOT** a contributing factor. In fact, the passage **warns against** "high dependence on a single export-oriented sector," stating it leads to **fragile progress**.

Thus, only **C** does **not** contribute to national strength as per the passage.

S19. Ans.(b)

Sol.

- **Statement A** is **correct**. The passage says: "Angola, in recent years, has made efforts to invest in education and healthcare to reduce its dependency on oil exports."

- **Statement B is incorrect.** The passage discusses global uncertainties such as trade disruptions and price fluctuations, but **it does not claim that social investment is risky or unwise.** In fact, it emphasizes that investment in education and healthcare is a strategic, long-term decision.
- **Statement C is correct.** The concluding paragraph explicitly states:

"Investments in human capital—through education and healthcare—are not only moral imperatives but strategic economic decisions."

So, **only A and C are correct.**

Correct answer: **(b)**

S20. Ans.(a)

Sol. In the context, the author is talking about something that is **difficult to ignore** the truth that is **unavoidable**.

- **(a) Obvious** – Correct. It means clearly visible or evident.

Hindi Meaning: स्पष्ट / साफ

- **(b) Hidden** – Incorrect. It means not visible, which is the opposite of "obvious".
- **(c) Subtle** – Incorrect. It means not immediately apparent, which is the opposite of "obvious".
- **(d) Dismiss** – Incorrect. It means to reject or ignore, which is the opposite of "obvious".
- **(e) Moderate** – Incorrect. It means average or not extreme, which is not related to "obvious".

Correct answer: **(a)**

S21. Ans.(a)

Sol. In the passage, the author talks about **bringing to a halt** the **delaying** development due to trade disruptions.

- **(a) Delay** – Correct. It means to cause something to happen later than expected.

Hindi Meaning: विलंब करना / टालना

- **(b) Promote** – Incorrect. It means to support or advance, which is the opposite of "stall".
- **(c) Encourage** – Incorrect. It suggests motivation or support, not interruption.
- **(d) Finalize** – Incorrect. It means to complete or conclude, which contrasts with "stall".
- **(e) Guarantee** – Incorrect. It means to assure or make certain, which is unrelated to delaying.

Correct answer: **(a) Delay**

S22. Ans.(e)

Sol. The sentence discusses countries **intentionally directing** their resource revenues into constructive sectors like education and healthcare. The correct word must reflect this **purposeful allocation**.

- **(e) channeling** – Correct. It means **directing something toward a specific use or purpose**.

Hindi Meaning: प्रवाहित करना / दिशा देना

- **(a) hoarding** – Incorrect. Means accumulating and storing, usually selfishly.
- **(b) diverting** – Partially correct in some contexts, but often implies changing course **away** from the intended or ideal direction.

to using up

g, which is not g.

" describes a or **bleak** — a s hindered. So, **positivity** or

thing **hopeful**, e opposite of

to "grim," not

ten serious in

synonym for

ym indicating

S24. Ans.(a)

Sol. The correct option to fill in the blank is (a) **retain, inspire**.

'Retain' means **to continue to hold or maintain** (बनाए रखना), and 'inspire' means **to motivate or uplift** (प्रेरित करना).

The sentence highlights the lasting relevance and motivational effect of the teachings.

Example:

- His core values still **retain** significance.
- Her courage **inspires** many young girls.

Explain why other options are incorrect:

Option (b): Attain – achieve (प्राप्त करना), Infuse – instill (भर देना) – grammatically awkward; teachings don't "attain relevance".

Option (c): Detain – hold back (रोकना), Revive – restore (पुनर्जीवित करना) – incorrect tone.

Option (d): Reclaim – regain (वापस लेना), Console – comfort (सांत्वना देना) – illogical pairing.

Option (e): Preserve – protect (संरक्षित करना), Enlighten – educate spiritually (प्रबुद्ध करना) – nearly correct, but not as precise as (a).

S25. Ans.(a)

Sol. The correct option to fill in the blank is (a) **jeopardized**.

'Abrupt' means sudden. The decision was made abruptly. 'jeopardized' means put in danger. The decision was made in a way that put the mission in jeopardy.

Example:

- The storm **jeopardized** the mission.
- His action **jeopardized** the mission.

Why Other Options Fail:

- **(b) trivial** – doesn't make sense in the context of a mission.
- **(c) relevant** – "without further delay" is opposite to "without further delay".
- **(d) delayed** – without further delay is opposite to "without further delay".
- **(e) determined** – but "determined" is not grammatically correct in this context.

S26. Ans.(c)

Sol. The correct option to fill in the blank is (c) **crafted**.

'Blend' means mix. The music is a perfect blend of jazz and classical. 'skillfully created' describes a new policy.

Example:

- The music is a perfect **blend** of jazz and classical.
- The sculpture was carefully **crafted** by hand.

Explain why other options are incorrect:

Option (a): Paradox – contradiction (विरोधाभास), Hindered – obstructed (बाधित किया) – logically off.

Option (b): Portrayal – depiction (चित्रण), Composed – arranged (रचित) – slightly vague.

Option (d): Dream – fantasy (सपना), Illustrated – shown (दर्शाया गया) – not contextually fitting.

Option (e): Merger – joining (विलय), Dictated – commanded (हुक्म दिया) – awkward and forceful tone.

S27. Ans.(b)

Sol. The correct option to fill in the blank is (b) **foresees, taken**.

'Foresees' means **predicts a future event** (पूर्वानुमान लगाना), and 'taken' is the passive form of action (लिया गया). The report **predicts danger** if action is **not taken**.

Example:

- The economist **foresees** a market crash.
- Steps must be **taken** to curb inflation.

Why Other Options Fail:

- **(a) assures, neglected** → "Assures" contradicts the warning tone; "neglected" would worsen the drought (illogical).

- **(c) proposes, eliminated** → "Proposes" is awkward; "eliminated" (removed) doesn't fit.

- **(d) supports, ignored** → "Supports" (supports) doesn't fit; "ignored" (ignored) again doesn't fit.

- **(e) predicts, taken** → "Predicts" fits, "taken" fits here.

S28. Ans.(b)

Sol. The correct option to fill in the blank is (b) **Step 1 – Identify the subject**.

Explanation: The subject of the sentence is "The new law".

Step 2 – Identify the object of "had": The object of "had" is "A significant effect".

Step 3 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 4 – Identify the object of "had": The object of "had" is "A significant effect".

Step 5 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 6 – Identify the object of "had": The object of "had" is "A significant effect".

Step 7 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 8 – Identify the object of "had": The object of "had" is "A significant effect".

Step 9 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 10 – Identify the object of "had": The object of "had" is "A significant effect".

Step 11 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 12 – Identify the object of "had": The object of "had" is "A significant effect".

Step 13 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 14 – Identify the object of "had": The object of "had" is "A significant effect".

Step 15 – Identify the area of effect: The area of effect is "On reducing pollution".

Step 4 – Final detail:

"Levels in the city" (A) completes the sentence by specifying the location.

Reconstructed Sentence:

The new law had a significant effect on reducing pollution levels in the city.

This sequence maintains proper subject-verb-object structure and chronological clarity.

S30. Ans.(b)

Sol. Correct Answer: (b) ACBD

Explanation

Step 1 – Identify the subject:

"The teacher's question" (A) is the subject

Step 2 – Identify the verb:

"Was designed

Step 3 – Identify the object:

"Thoughtful an

Step 4 – Identify the preposition:

"From the stu

were elicited.

Reconstructed Sentence:

The teacher's

answers from

S31. Ans.(a)

Sol. Correct S

Explanation

Let's analyze h

- (D) introduces the **main idea** — price surges in coffee and orange juice due to climate-related factors.
- (F) explains **why coffee prices surged**, focusing on Brazil's production challenges.
- (C) explains the **orange juice price hike**, citing disease and hurricane-related issues in Florida and Brazil.
- (B) makes a **comparison** between the two commodities, noting that although both were affected, the disruptions differed.
- (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.
- (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

S32. Ans.(c)

Sol. Correct Sentence Sequence: D → F → C → B → A → E

Explanation of Sequence:

Let's analyze how the paragraph logically flows:

- (D) introduces the **main idea** — price surges in coffee and orange juice due to climate-related factors.
- (F) explains **why coffee prices surged**, focusing on Brazil's production challenges.
- (C) explains the **orange juice price hike**, citing disease and hurricane-related issues in Florida and Brazil.

- (B) makes a **comparison** between the two commodities, noting that although both were affected, the disruptions differed.
- (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.
- (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

S33. Ans.(b)

Sol. Correct Sentence Sequence: D → F → C → B → A → E

Explanation of Sequence:

Let's analyze how the paragraph logically flows:

- (D) introduces the **main idea** — price surges in coffee and orange juice due to climate-related factors.
- (F) explains **why coffee prices surged**, focusing on Brazil's production challenges.
- (C) explains the **orange juice price hike**, citing disease and hurricane-related issues in Florida and Brazil.
- (B) makes a **comparison** between the two commodities, noting that although both were affected, the disruptions differed.
- (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.
- (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

S34. Ans.

Sol. Corre

ation

Let's analyze how the paragraph logi

ws:

• (D) introduces the **main idea** — price surges in coffee and orange juice due to climate-related factors.

• (F) explains **why coffee prices surged**, focusing on Brazil's production challenges.

• (C) explains the **orange juice price hike**, citing disease and hurricane-related issues in Florida and Brazil.

• (B) makes a **comparison** between the two commodities, noting that although both were affected, the disruptions differed.

• (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.

• (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

- (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.
- (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

S35. Ans.(c)

Sol. Correct Sentence Sequence: D → F → C → B → A → E

Explanation of Sequence:

Let's analyze how the paragraph logically flows:

- (D) introduces the **main idea** — price surges in coffee and orange juice due to climate-related factors.
- (F) explains **why coffee prices surged**, focusing on Brazil's production challenges.

- (C) explains the **orange juice price hike**, citing disease and hurricane-related issues in Florida and Brazil.
- (B) makes a **comparison** between the two commodities, noting that although both were affected, the disruptions differed.
- (A) follows with the **current status** of each: coffee is stabilizing, orange juice is still struggling.
- (E) concludes by summarizing the **insight**—different vulnerabilities lead to different market behaviors.

S36. Ans.(d)

Sol. Analysis:

Stock sector" is incorrect and should be "stock market" → C

"Banking market" is correct.

"Gains" is correct.

So, the proper word is "Banking market".

Restructured sector is correct.

The stock market is correct.

the banking sector is correct.

S37. Ans.(c)

Sol. Analysis:

A (Heavy rain) is correct.

delay. It should be "Heavy rain".

C (flights) – The flights are correct.

B (airport) – The airport is correct.

Restructured sector is correct.

Heavy rainfall is correct.

from the city and the airport is correct.

S38. Ans.(c)

Sol. Analysis:

The original sentence is incorrect.

"reduce air quality" is incorrect.

rearranging the words in the order D (aim), C (air quality), B (areas).

Restructured sentence is correct.

The new policy is correct.

improve air quality is correct.

S39. Ans.(e)

Sol. The correct answer is: (e) Both (A) and (C)

Word: Counsel

Meaning in English:

As a noun: advice, especially given formally

As a noun (law): a lawyer or group of lawyers giving legal advice and conducting a case

As a verb: to give advice, especially on social or personal problems

Meaning in Hindi:

Noun: सलाह / परामर्श

Verb: सलाह देना / मार्गदर्शन करना

Sentence-wise Evaluation:

- (A) Correct – "Counsel" is used as a noun meaning advice, given formally.

(B) Incorrect – "Counsel" is used as a verb here; the correct word would be "advised", referring to a person.

(C) Correct – "Counsel" is used as a noun meaning legal advice, given formally, in a legal context.

(D) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(E) Correct – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(F) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(G) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(H) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(I) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(J) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(K) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(L) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(M) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(N) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(O) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(P) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(Q) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(R) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(S) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(T) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(U) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(V) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(W) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(X) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(Y) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.

(Z) Incorrect – "Counsel" is used as a noun meaning advice, given formally, in a legal context.



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A	45% of 1200 = 540
B	8% of 1200 = 96
C	20% of 1200 = 240
D	15% of 1200 = 180
E	12% of 1200 = 144

S41. Ans.(a)

Sol. Males in F = 150% of 180 = 270

Females in F = 80% of $\left(\frac{96+144}{2}\right)$ = 96

Total population of F = 366

Required percentage = $\frac{366}{240} \times 100 = 152.5\%$

S42. Ans.(d)

Sol. Required answer = $(96+240) - 144 = 192$

S43. Ans.(e)

Sol. Ratio of male : female = 2:5

Ratio of female : children = 1:1

Ratio of male : female: children = 2:5:5

Children in C = $\frac{5}{2+5+5} \times 240 = 100$

Required ratio = $100 : 144 = 25:36$

S44. Ans.(b)

Sol. Required answer

$$= \frac{(540+240)-(180+144)}{540+240} \times 100 = \frac{456}{780} \times 100 = 58.46\%$$

S45. Ans.(b)

Sol. Total female

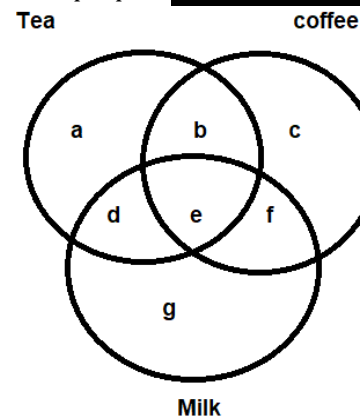
Females in D =

Females in all

Required answer

Solution (46-4)

Total people w



$a:c = 5:3 = 5x:3x$

$g = b$

$e = 16$

$d = 130\% \text{ of } f$

$d:f = 13:10$

$f = 20$

$d = \frac{13}{10} \times 20 = 26$

$20 = 2 \times 5x$

$2 = x$

Put the value in i

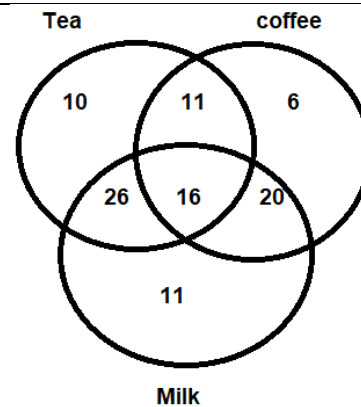
We get

$a = 10$ and $c = 6$

$10 + 6 + b + 20 + 26 + 16 + g = 100$

$22 = b + g$ (b and g are equal)

$b = g = 11$



S46. Ans.(a)



			Post - Graduate Employees
A	220	112	108
B	196	$(196 + 2)/2 = 99$	$196 - 99 = 97$
C	224	$(224 + 36)/2 = 130$	$224 - 130 = 94$
D	200	$(200 + 90)/2 = 145$	$200 - 145 = 55$
E	204	$(204 + 96)/2 = 150$	$204 - 150 = 54$
	1044	636	408

S50. Ans.(a)

Sol. Required answer = $\frac{99+145}{2} - \frac{108+54}{2} = 122 - 81 = 41$

S51. Ans.(e)

Sol. Managers in A = $\frac{7}{7+4} \times 220 = 140$

Associate in A = $220 - 140 = 80$

Female manager in A = $\frac{1}{6}$ males manager in A

Males manager in A = $\frac{6}{6+1} \times 140 = 120$

Required answer = $120 - 80 = 40$

S52. Ans.(d)

Sol. Total employees in X = $\frac{220+224+204}{3} = 216$

Graduate employees in X = 112

Post graduate employees in X = $216 - 112 = 104$

Required answer = $104:150 = 52:75$

S53. Ans.(e)

Sol. Required :

S54. Ans.(d)

Sol. Graduated

80 = females w

60 = females w

Males who are

Required answ

S55. Ans.(e)

Sol. Graduate

Total employe

The total post

S56. Ans.(d)

Sol. Informati

Asked approx

value in this q

Total initial m

Milk = 80% of

Water = 20% of

25% of the mi

Then 19 liters

Formula Used:

To remove a percentage of a mixture: Deduct that percentage from each component proportionally.

Final volume after removing part and adding water:

Final Milk = Milk after removal

Final Water = Water after removal + Added water

Explanation:

Take base total = 140 liters

Milk = 112, Water = 28

Remove 25% → 35 liters → 28 milk + 7 water

Remaining = 84 milk + 21 water

Add 19 water → Total = 84 milk + 40 water = 124 liters

Water % $\approx (40/124) \times 100 \approx 32\%$ (approx.)

S57. Ans.(d)

Sol. Information Given:

A and B together can do the work in 2T days

A alone can do it in 10 days

B alone can do it in 5T days

We are to find the value of T

Formula Used:

Work is assumed to be 1 unit

Efficiency = Work / Time

A's 1-day work = $1/10$

B's 1-day work = $1/(5T)$

(A + B)'s 1-day work = $1/(2T)$

Explanation:

S58. Ans.

Sol. Inform

Education expense = 12% of salary

Rent expense = 7% of salary

SIP = ₹10,250

Savings = 4x% of salary

Need to find x

Let initial salary = ₹25000

Education expense = $0.12 \times 25000 = ₹3000$

Rent expense = $0.07 \times 25000 = ₹1750$

SIP = ₹10250

Total = ₹3000 + ₹1750 + ₹10250 = ₹15000

Remaining for savings = ₹25000 - ₹15000 = ₹10000

Set up equation:

$(4x / 100) \times 25000 = 10000$

$1000x = 10000$

$x = 10000 / 1000 = 10$

Explanation:

Calculate fixed expenses

Education = $0.12 \times 25000 = ₹3000$

Rent = $0.07 \times 25000 = ₹1750$

SIP = ₹10250

Total = ₹3000 + ₹1750 + ₹10250 = ₹15000

Remaining for savings = ₹25000 - ₹15000 = ₹10000

Set up equation:

$(4x / 100) \times 25000 = 10000$

$1000x = 10000$

$x = 10000 / 1000 = 10$

S59. Ans.(d)

Sol. (I): $x^2 - 20x + 91 = 0$

$$x^2 - 7x - 13x + 91 = 0$$

$$x(x - 7) - 13(x - 7) = 0$$

$$(x - 7)(x - 13) = 0$$

$$x = 7, 13$$

(II): $y^2 - 28y + 195 = 0$

$$y^2 - 13y - 15y + 195 = 0$$

$$y(y - 13) - 15(y - 13) = 0$$

$$(y - 13)(y - 15) = 0$$

$$y = 13, 15$$

$$x \leq y$$

S60. Ans.(b)

Sol. (I): $x^2 - 24x + 143 = 0$

$$x^2 - 11x - 13x + 143 = 0$$

$$x(x - 11) - 13(x - 11) = 0$$

$$(x - 11)(x - 13) = 0$$

$$x = 11, 13$$

(II): $y^2 - 13y + 42 = 0$

$$y^2 - 11y - 2y + 42 = 0$$

$$y(y - 11) - 2(y - 11) = 0$$

$$(y - 11)(y - 2) = 0$$

$$y = 11, 2$$

$$x \geq y$$

S61. Ans.(e)

Sol. I. $3x^2 - 15x + 12 = 0$

$$3x^2 - 9x - 6x + 12 = 0$$

$$3x(x - 3) - 6(x - 3) = 0$$

$$(3x - 6)(x - 2) = 0$$

$$x = 2, 3$$

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

$$y^2 - 3y + 2y - 6 = 0$$

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

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

$$y = 3, -2$$

So, no relation

S62. Ans.(d)

Sol. Age of Y at present = 28 years

Age of X after 4 years = 28 years

$$\text{Present age of Z} = (28 - 4) \times \frac{125}{100} = 30 \text{ years}$$

$$\text{Age of Z six year ago} = 30 - 6 = 24 \text{ years}$$

S63. Ans.(c)

Sol. Let speed of boat 'g' and boat 'h' in still water be $4x$ kmph and $5x$ kmph respectively.

ATQ,

$$\frac{180}{5x + 15} = 4.5$$

$$40 = 5x + 15$$

$$x = 5$$

$$\text{Required time} = \frac{120}{4 \times 5 - 15} = 24 \text{ hours}$$

S64. Ans.(c)

Sol. Let the investment of A and B be Rs. $3P$ and Rs. $4P$ respectively.

Let A and B invested for 'a' months and 'b' months respectively

$$\text{ATQ, } \frac{3P \times a}{4P \times b} = \frac{2700}{5100 - 2700}$$

$$\frac{3a}{4b} = \frac{9}{8}$$

$$a : b = 3m : 2m$$

ATQ,

$$3m - 2m = 3$$

$$m = 3$$

Investment period of A = 9 months

S65. Ans.(d)

Sol. Let the investment of A and B be Rs. $3P$ and Rs. $4P$ respectively.

Let A and B invested for 'a' months and 'b' months respectively

$$\text{ATQ, } \frac{3P \times a}{4P \times b} = \frac{2700}{5100 - 2700}$$

$$\frac{3a}{4b} = \frac{9}{8}$$

$$a : b = 3m : 2m$$

ATQ,

$$3m - 2m = 3$$

$$m = 3$$

Investment period of A = 9 months

S66. Ans.(c)

Sol. Let the investment of A and B be Rs. $3P$ and Rs. $4P$ respectively.

Let A and B invested for 'a' months and 'b' months respectively

$$\frac{3P \times a}{4P \times b} = \frac{2700}{5100 - 2700}$$

$$\frac{3a}{4b} = \frac{9}{8}$$

$$a : b = 3m : 2m$$

ATQ,

$$3m - 2m = 3$$

$$m = 3$$

Investment period of A = 9 months

S67. Ans.(e)

Sol. Let the investment of A and B be Rs. $3P$ and Rs. $4P$ respectively.

Let A and B invested for 'a' months and 'b' months respectively

$$\frac{3P \times a}{4P \times b} = \frac{2700}{5100 - 2700}$$

$$\frac{3a}{4b} = \frac{9}{8}$$

$$a : b = 3m : 2m$$

ATQ,

$$3m - 2m = 3$$

$$m = 3$$

Investment period of A = 9 months



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S68. Ans.(b)

Sol. Let the radius of circle P and circle Q be 'r' cm and 'R' cm respectively.

$$4r = R \dots (i)$$

$$2 \times \frac{22}{7} \times R - 2 \times \frac{22}{7} \times r = 132$$

$$2 \times \frac{22}{7} \times 4r - 2 \times \frac{22}{7} \times r = 132$$

$$6 \times \frac{22}{7} \times r = 132$$

$$r = 7$$

Radius of circle Q = 28 cm

$$\text{Required area} = \frac{22}{7} \times 28 \times 28 = 2464 \text{ cm}^2$$

S69. Ans.(b)

Sol. Let cost price = x

Mark price of article = 135x

ATQ,

$$135x \times \frac{80}{100} - 100x = 177$$

$$\Rightarrow 108x - 100x = 177$$

$$\Rightarrow x = \frac{96}{8} = 12$$

Retailer's profit =

$$= 135x \times \frac{85}{100} - 100x$$

$$= 114.75x - 100x$$

$$= 14.75x$$

$$= 14.75 \times 12$$

$$= 177$$

S70. Ans.(b)

Sol. Volume of cylinder = $\pi r^2 h$

Volume of sphere = $\frac{4}{3} \pi r^3$

$$\text{ATQ } \frac{\pi r^2 h}{\frac{4}{3} \pi r^3} = \frac{3}{1}$$

$$\Rightarrow \frac{h}{r} = \frac{4}{1} \Rightarrow h = 4r$$

T.S.A of cylinder = $2\pi r(h+r)$

T.S.A of sphere = $4\pi r^2$

Required Ratio = $\frac{2\pi r(4r+r)}{4\pi r^2} = \frac{10}{4} = \frac{5}{2}$

Solutions (71-75):

Boxes
B
H
C
F
I
E
A
G
D

S71. Ans.(e)

S72. Ans.(c)

S73. Ans.(a)

S74. Ans.(a)

S75. Ans.(b)

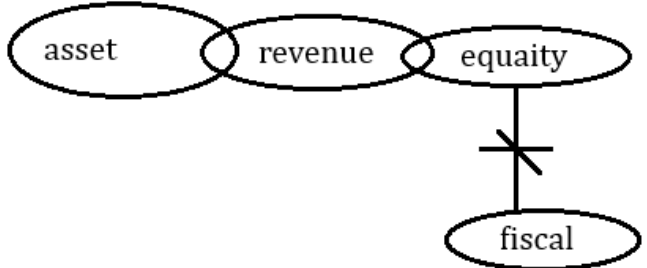
S76. Ans.(b)

Sol.



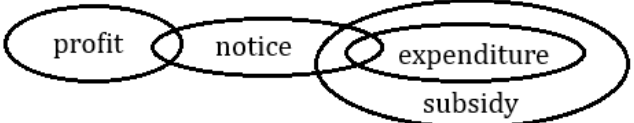
S77. Ans.(e)

Sol.



S78. Ans.(b)

Sol.



S79. Ans.(b)

Sol.



S80. Ans.(b)

Sol.

		Activity
January	P	Reading
March	Q	Dancing
April	S	Yoga
June	U	Hiking
July	T	Camping
August	V	Meditation
November	R	Cycling

S81. Ans.(a)

S82. Ans.(e)

S83. Ans.(e)

S84. Ans.(c)

S85. Ans.(d)

Solutions (86-90):

	R	V	U	T	P	Q	S
Row 2							
Row 1							
	C	G	B	E	A	F	D

S86. Ans.(d)

S87. Ans.(e)

S88. Ans.(c)

S89. Ans.(a)

S90. Ans.(b)

Solutions (91

Years
1955
1961
1972
1987
1998
2006
2017

S91. Ans.(e)

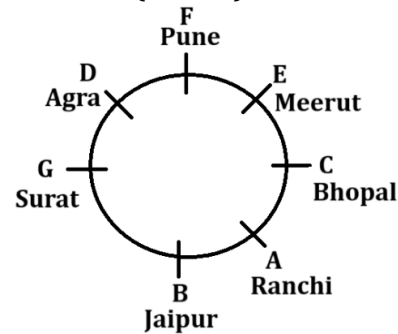
S92. Ans.(d)

S93. Ans.(a)

S94. Ans.(d)

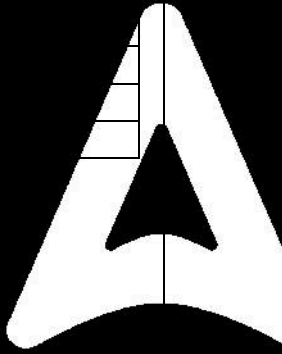
S95. Ans.(e)

Solutions (96-100):



S96. Ans.(c)

S97. Ans.(e)



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