

RBI Grade B Previous Year Question Paper (2023)

Directions (1): In the following questions, few sentences are given. Choose and mark the sentence which contains grammatical or contextual error in it. If all the sentences are grammatically and contextually correct, mark the “all are correct” option as the answer choice.

- Q1.** (a) The professor's explanation was so ambiguous that students were left confused about the main concept.
(b) Solving the complex conundrum required a combination of analytical skills and creativity.
(c) Planting trees is an effective way to mitigate the impact of climate change.
(d) The team celebrated their victory after they have scored the winning goal in the final minutes of the game.
(e) All are correct

Directions (2-3): In the question given below, some sentences/phrases are given which have to be arranged in a proper sequence. Select the option which best defines the proper sequence and arranges the sentence in an appropriate way.

Q2. in lively discussions, exchanging ideas (A)/ eager students engaged (B)/ curiosity and growth (C)/ that sparked intellectual (D)

- (a) BCDA
(b) ADCB
(c) BADC
(d) CBAD
(e) ABDC

Q3. nurturing trust and communication (A)/ connections between individuals (B) form the foundation of (C)/enduring and fulfilling (D)

- (a) BCDA
(b) ACDB
(c) BADC
(d) CBAD
(e) ABDC

Directions (4): Rearrange the following six sentences (A), (B), (C), (D) and (E) in the proper sequence to form a meaningful paragraph and then answer the question given below.

- Q4.** (A) At last, in an old attic, he unearthed a chest filled with heirlooms
(B) Grateful, James felt a renewed sense of belonging and cherished the legacy passed down through generations.
(C) Excitement fueled his journey as he deciphered the riddles and traveled to historic landmarks.
(D) A mysterious letter arrived at James's doorstep, revealing clues to an undiscovered family treasure.
(E) He also found a letter from a long-lost relative, connecting him to a rich family history.

- (a) BCADE
(b) ADCBE
(c) DCBAE
(d) DCAEB
(e) CDABE

Directions (5-7): In the following questions, you will find two sentences, each with a blank. Select the most appropriate phrase that will complete both blanks, ensuring grammatical correctness and contextual relevance.

Q5. (I) The argument between the coworkers quickly got _____, escalating into a heated and unproductive exchange.

(II) The party's noise levels were getting _____, prompting the neighbors to complain about the disturbance.

- (a) in deep trouble
- (b) out of hand
- (c) dropped
- (d) under the thumb
- (e) highly rational

Q6. (I) The job interview seemed promising initially, but nerves got the best of the candidate, causing the interview _____.

(II) The situation started _____ when conflicts arose among team members.

- (a) to go south
- (b) to outshine
- (c) to think out of the box
- (d) to grapple
- (e) to perform outstandingly

Q7. (I) The research team _____ when the laboratory equipment malfunctioned.

(II) The project _____, and the initial smooth progress turned into a complex situation.

- (a) ridicule the team
- (b) found a difficult terrain
- (c) on the educational program
- (d) were an organized structure
- (e) faced unexpected challenges

Directions (8-15): Read the following passage and answer the given questions.

In the intricate global tapestry, third-world countries stand at the crossroads of challenges and opportunities, with a potential for transformative change. Economic disparities, healthcare inadequacies, and educational barriers are persistent challenges, but a concerted effort toward empowerment can pave the way for sustainable development.

Economic inequality remains a pressing issue, depriving millions of access to basic necessities. However, targeted efforts to equally distributing the resources and introducing policies to enhance economic opportunities, such as microfinance initiatives and entrepreneurship support, can uplift communities, fostering self-sufficiency and breaking the chains of poverty.

Inadequate healthcare exacerbates the hardships faced by these nations. Addressing this challenge involves not only improving healthcare infrastructure but also implementing preventive measures and health education programs. By **fostering** a healthier population, nations can build a foundation for economic stability and growth.

Education emerges as a key catalyst for change. Access to quality education is a fundamental right that **unlocks doors to a better future**. International collaborations and investments in educational infrastructure can bridge the existing gaps, empowering individuals to contribute meaningfully to their communities and the global economy.

Political stability is integral to sustainable development. Governance reforms that tackle corruption and promote transparency strengthen institutions, fostering an environment _____ to progress. A robust legal and regulatory framework creates a foundation for economic investments, driving growth and development.

Infrastructure deficiencies, from unreliable power sources to limited transportation networks, impede progress. Strategic investments in infrastructure development enhance connectivity, promote trade, and create an environment conducive to economic activities, thereby laying the groundwork for sustainable growth.

In conclusion, third-world countries face challenges that require comprehensive and collaborative solutions. By empowering communities through economic opportunities, healthcare, education, and political stability, the global community can contribute to a more equitable and sustainable world. The path to sustainable development involves recognizing the potential within these nations and working collectively to build a future where prosperity knows no borders.

Q8. What specific strategies are mentioned to address economic inequality and uplifting communities?

- (I) Implementing targeted efforts such as microfinance initiatives and entrepreneurship support.
 - (II) Developing initiatives aimed at eradicating corruption and fostering a culture of transparency.
 - (III) Introducing comprehensive policies to bridge income gaps by fostering self-sufficiency.
 - (IV) Advocating for equitable distribution of resources and opportunities to uplift marginalized communities.
- (a) Only (I)
(b) Both (III) and (IV)
(c) Both (I) and (IV)
(d) Only (I), (III) and (IV)
(e) All (I), (II), (III) and (IV)

Q9. How is political stability linked to sustainable development in the information provided?

- (a) Ensuring autocratic rule prioritizes efficiency, fostering streamlined decision-making.
(b) Political stability fosters an environment conducive to progress and growth.
(c) Guaranteeing equal representation establishes a foundation for inclusive political systems.
(d) Opting for isolationism in political stability can lead to reduced international cooperation.
(e) All of these

Q10. In the context of education as a catalyst for change, what is the significance of international collaborations?

- (a) Promoting global standardization of educational curricula.
- (b) Addressing educational disparities through collaborative initiatives.
- (c) Restricting educational access for the sake of national development.
- (d) Fostering emigration of intellectual talent from developing nations.
- (e) Enforcing stringent quotas on international student admissions.

Q11. Beyond governance reforms, what is suggested as a critical component to fostering an environment conducive to progress?

- (a) Advocacy for a rule characterized by authority and central control.
- (b) Encouraging a policy of isolating a culture from external influences.
- (c) Seeking uniformity in religious beliefs within a society.
- (d) Imposing restrictions on technological information dissemination.
- (e) Advocating for increased transparency and openness in governance.

Q12. What overarching theme is emphasized as the path to sustainable development for third-world countries?

- (a) Technological advancement for all
- (b) Isolationist economic policies
- (c) Strict adherence to traditional practices
- (d) Collective and comprehensive solutions
- (e) Rapid industrialization strategies

Q13. What does the author mean by “unlock doors to better future” in reference to the accessibility to quality education?

- (a) Open pathways to increased technological literacy and innovation.
- (b) With better literacy rate, create opportunities for universal healthcare access and affordability.
- (c) Establish foundations for sustainable economic growth and stability.
- (d) To enhance citizens' comprehension, implementing comprehensive reforms to ensure transparent and effective governance.
- (e) Encourage inclusive and quality education for personal and community development.

Q14. Which of the following word is suitable to fill the given blank?

- (a) conducive
- (b) affective
- (c) redundant
- (d) acknowledging
- (e) measuring

Q15. Which of the following word is synonymous to “fostering”?

- (a) suppressing
- (b) overlooking
- (c) nurturing
- (d) raising
- (e) neglecting

Directions (16-17): An idiom 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.

Q16. GIVE A BIG HAND

(I) The charity organization **gave a big hand** to the donors who contributed generously to support their cause.

(II) The weather forecast looked promising, but unfortunately, they **gave a big hand** with unexpected rain and thunderstorms.

(III) The audience stood up and **gave a big hand** to the speaker for delivering an inspiring and motivational speech.

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

Q17. THRASH OUT

(I) With a series of successful product launches, the company **thrash out** in the market.

(II) The collaborators decided to **thrash out** the creative differences to produce a cohesive artistic vision.

(III) Conservation efforts are crucial in **thrashing out** endangered species and protecting the delicate balance of ecosystems.

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

Directions (18-21): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, options are given. Find out the appropriate word which fits into the blank appropriately.

European countries (18) with a persistent challenge: oil dependency. Reliance on imported oil exposes these nations to geopolitical uncertainties and market (19) . To address this (20) , there is a concerted effort to diversify energy sources, emphasizing renewables and sustainable practices. The (21) of a greener, more self-sufficient energy landscape is at the forefront of Europe's strategic initiatives.

Q18.

- (a) conflict
- (b) grapple
- (c) subdue
- (d) adjusts
- (e) validates

Q19.

- (a) demonstrations
- (b) expansion
- (c) diversion
- (d) fluctuations
- (e) distractions

Q20.

- (a) opportunity
- (b) vulnerability
- (c) possibility
- (d) reliability
- (e) durability

Q21.

- (a) demands
- (b) compulsion
- (c) pursuit
- (d) charity
- (e) conclusion

Q22. In the following questions, few sentences are given. Choose and mark the sentence which contains grammatical or contextual error in it. If all the sentences are grammatically and contextually correct, mark the “all are correct” option as the answer choice.

- (a) Before we left for the vacation, we had already booked our hotel and made all the necessary arrangements.
- (b) Despite facing numerous challenges, she remained tenacious in her pursuit of success.
- (c) The research findings was disparate, leading to conflicting interpretations among the scientific community.
- (d) Once he had received the information, he immediately began working on the project.
- (e) All are correct

Directions (23-27): 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 number of that part is the answer. If the given sentence is grammatically and contextually correct, the choose option “No error” as right answer choice. (Ignore errors of punctuation, if any.)

Q23. Neither of the candidates (A)/ have submitted (B)/ their application (C)/ before the deadline. (D)

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

Q24. Never he had imagined that, (A)/ after years of hard work (B)/ and dedication, would success(C)/ come so suddenly. (D)

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

Q25. Despite of the rain, (A)/ they decided (B)/ to proceed (C)/ with the outdoor event. (D)

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

Q26. She could of finished (A)/ the assignment earlier(B)/ if she had (C)/started it sooner. (D)

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

Q27. The conference room is (A)/ large enough to accommodate (B)/ over fifty participants, (C)/ ensuring everyone have a seat. (D)

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

Directions (28): Read the following paragraph and answer the question.

In a remote village, young Raj, armed with determination, led a campaign to plant trees and recycle in response to the changing climate. Armed with a small shovel and a heart full of conviction, he rallied his neighbors to join the fight against deforestation. With each sapling he planted, Raj became the beacon of change, proving that even a small boy from a humble village could make a significant impact in the global battle for a sustainable future. The village transformed, not just in greenery but in awareness, as Raj's passion ignited a collective effort to protect their environment.

Q28. What transformation occurred in the village as a result of Raj's efforts?

- (a) The village became a hub for industrial growth
- (b) The climate deteriorated further
- (c) The village embraced a sustainable lifestyle
- (d) The villagers became disinterested in environmental issues
- (e) None of these

Q29. In the following questions, few sentences are given. Choose and mark the sentence which contains grammatical or contextual error in it. If all the sentences are grammatically and contextually correct, mark the “all are correct” option as the answer choice.

- (a) Neither of the options seems appealing to me, and I'm unsure which one to choose.
- (b) The new employee is adapting well to her new role and quickly learning the company's policies.
- (c) The project requires a lot of research, but its importance cannot be overstated.
- (d) The teacher requested the students to not talk during the exam.
- (e) All are correct

Directions (30): For each question, five options are given out of which four options follow the similar theme. Choose the option which fails to become a part of the coherent paragraph and is the odd-one-out.

Q30.

- (a) The contemporary education system grapples with the evolving needs of a rapidly changing world.
- (b) It integrates of technology, collaborative learning, and emphasis on practical skills
- (c) Focused on fostering critical thinking and adaptability, it seeks to prepare students for a dynamic future.
- (d) This system inadequately prepares for the rapidly changing job market and technological advancements.
- (e) Today's education system aims to bridge the gap between academia and real-world challenges

Directions (31-35): Study the following information carefully and answer the questions given below-

Eight family members sit around a circular table facing the centre and all of them related to B in some way. L is the daughter-in-law of B who sits 2nd to the left of his son. B and his daughter are immediate neighbours. B and his wife sit opposite to each other. T is the only son's son-in-law of B and sits 3rd to the left of B's daughter. S is the grandmother of E. Q is the paternal aunt of D. B's sister and B's wife are not an immediate neighbour. K sits 2nd to the left of L.

Q31. How many persons sit between T and D?

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

Q32. How is K related to Q?

- (a) Niece
- (b) Nephew
- (c) Aunt
- (d) Uncle
- (e) None of these

Q33. What is the position of D's daughter with respect to S's sister-in-law?

- (a) 4th to the left
- (b) 3rd to the right
- (c) Immediate left
- (d) 2nd to the left
- (e) None of these

Q34. Who among the following is an immediate neighbour of T's mother-in-law?

- (a) E
- (b) Q
- (c) S
- (d) K
- (e) None of these

Q35. Four of the following five are alike in a certain way (according to blood relation) and hence form a group. Who among the following does not belong to that group?

- (a) D
- (b) Q
- (c) L
- (d) K
- (e) E

Directions (36-39): Study the following information carefully and answer the questions given below-

In a certain code language:

"Shopping malls summer season" is coded as "T24V H1P I26V M21V"

"Wooden work on shoe" is coded as "M35Z P15Z M15R V20V"

"Leather jacket feel awesome" is coded as "I11O G6M O10I V26D"

"Jurassic Park dragon flies" is coded as "X31M P1S M16G H14I"

Q36. What is the code for "Home minister" in the given code language?

- (a) K20V N21P
- (b) V20K I23P
- (c) V21K I20P
- (d) I13P K20V
- (e) None of these

Q37. The code "M10J V11S" is coded as for ____.

- (a) Green Peas
- (b) Greek word
- (c) Green peace
- (d) Greece state
- (e) None of these

Q38. What is the code for “Revolution” in the given code language?

- (a) M65U
- (b) U35M
- (c) M45U
- (d) M60U
- (e) None of these

Q39. What is the code for “Perfect match” in the given code language?

- (a) F10R R10P
- (b) G1S S10P
- (c) S1P G1S
- (d) G10S S1P
- (e) None of these

Q40. How many such pair of letters are there in the word ‘MOMENTOUS’, each of which have as many letters between them in the word as they have in the English alphabet (both forward and backward direction)?

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

Directions (41-45): Study the information carefully and answer the questions given below.

Eight saint P, Q, R, S, T, U, V and W are chanting on two different dates (3rd and 16th) in four different months i.e., January, March, April and May. Each of them chants at different places- Golden temple, Tirupati Balaji, Jagannath temple, Meenakshi temple, Konark temple, Somnath temple, Ramnath swamy temple and Badrinath temple. All information is not necessarily in same order.

The one who chants in Badrinath temple, chants before the one who chants in Konark temple but both of them chant on odd date. R chants just before the one who chants in Tirupati Balaji but not in the same month. The number of saints chant before R is equal as after Q. R neither chants in January nor in May. More than two saints chant between Q and the one who chants in Meenakshi temple. Four saint chants between the ones who chants in Meenakshi temple and Somnath temple. Q does not chant in Somnath temple. V chants just after the one who chants in Golden temple but not in the same month. S chants in Jagannath temple. T chants just before P in the same month. More than one saint chant between U and the one who chants in Ramnath swamy temple.

Q41. How many saints chant between V and the one who chant in Jagannath temple?

- (a) Four
- (b) More than five
- (c) Three
- (d) Five
- (e) None of these

Q42. Who among the following chants on 3rd may?

- (a) U
- (b) The one who chants in Tirupati Balaji
- (c) W
- (d) The one who chant in Jagannath temple
- (e) None of these

Q43. ___ chants on 16th of the month in ___.

- (a) P, Meenakshi temple
- (b) R, Golden temple
- (c) W, Somnath temple
- (d) R, Tirupati Balaji
- (e) None of these

Q44. Which of the following statement is not true?

I. V does not chant on even date

II. W chants in Tirupati Balaji

III. T chants after U

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

Q45. The number of saints chant between P and U is twice than the number of saints chant between ___ and ___.

- (a) S and the one who chant in Badrinath temple
- (b) T and the one who chant in Tirupati Balaji
- (c) W and the one who chant in Badrinath temple
- (d) Q and the one who chant in Ramnath swamy temple
- (e) None of these

Directions (46-47): In each of the questions below, some statements are given followed by some 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 logically follow from the given statements, disregarding commonly known facts. Give answer

Q46. Statements: Mostly Almonds are Peanuts.

Only a few Peanuts are Cream.

No Cream is Dairy.

Only a few Dairy is Milk.

Conclusions: I. All Peanuts can be Dairy

II. Some Peanuts are not milk

III. Some Peanuts are not Cream.

(a) Only I and II follows

(b) Only II and III follows

(c) Only III follows

(d) None follows

(e) Only I and III follows

Q47. Statements: All Jam is Bread.

Only a few Jam is Butter.

All cake is Butter.

All Butter is Cheese.

Conclusions: I. Some Cheese are not Bread

II. Some Cake can be Bread

III. All Butter can be Jam

(a) Both I and II follow

(b) Only II

(c) Either II or III follows

(d) Both II and III follows

(e) None follows

Q48. If we form a meaningful word by the first, second, fourth, fifth and eighth letter of the word "IMPRISONER", then which of the following will be the first letter of the word thus formed? If more than one word is formed mark Y as your answer. If no meaningful word is formed, mark X as your answer.

(a) R

(b) X

(c) I

(d) Y

(e) N

Directions (49-51): After 8 phases of election in Bengal, on 2nd May the 'khela' becomes over. TMC lead by Chief Minister Mamata Banerjee has got success to clean sweep Bengal election despite of strong opposition heavyweight Bhartiya Janata Party. Top Central Ministers and chief ministers of BJP ruled states also participated in rallies. While seated in a wheelchair Didi with her injured left foot, rallies could not have been easy. But Didi scored! And her supporters and TMC cheered.

Q49. What may be the reason for defeat of heavyweight Bhartiya Janata Party?

(a) BJP did not get success to connect with common people and their basic needs.

(b) Rallies by Top central Minister and Chief ministers backfires the promotion strategy of BJP.

(c) Promotion by Didi with her injured left foot, seated on wheelchair help in gaining sympathy of Bengal people.

(d) Both (a) and (b)

(e) Both (a) and (c)

Q50. What can be assumed from the given statement of election result?

- (a) Rallies by top ministers attract the voters to vote towards the party.
- (b) Election commission takes a long duration of time to conduct election in Bengal.
- (c) After Bengal, there will be election in two more states.
- (d) Both (a) and (b)
- (e) Both (b) and (c)

Q51. I. TMC Party workers starts celebration and there is some news of violence between BJP & TMC workers.

II. Out of 292 seats, TMC has marked a major victory by winning 225 seats and BJP has not touched the triple figure.

Give answer

- (a) If Statement I is the cause and Statement II is its effect.
- (b) If Statement II is the cause and Statement, I is its effect.
- (c) If both the Statements I and II are independent causes.
- (d) If both the Statements I and II are effects of independent causes.
- (e) If both the Statement I and II are effects of some common causes.

Directions (52-54): In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions **logically does not follow** from the information given in the statements.

Q52. Statements: Some Kolkata are Jhansi.

Some Delhi are Cuttack.

No Jhansi is Cuttack.

Conclusions: (a) All Kolkata cannot be Cuttack

- (b) Some Delhi can be Jhansi
- (c) All Jhansi can be Delhi
- (d) Some Jhansi are not Kolkata
- (e) Some Kolkata can be Cuttack

Q53. Statements: All Deepak are Gourav.

Some Nitin are Farida.

No Deepak are Farida.

Conclusions: (a) Some Gourav can be Nitin

- (b) All Deepak can be Nitin
- (c) All Nitin can be Deepak
- (d) Some Gourav are not Farida
- (e) Some Gourav are Deepak

Q54. Statements: All Nokia are Motorola.

All Motorola are Samsung.

Some Samsung are Redmi.

Conclusions: (a) Some Motorola can be Redmi

- (b) Some Nokia can be Samsung
- (c) All Redmi can be Nokia
- (d) All Nokia are Samsung
- (e) Some Samsung are Nokia

Q55. Statement: Should smart phone and laptop not be given to children by parents?

Arguments:

I. No. During covid era, students are taught by school through online education and smart phone or laptop is needed for it.

II. Yes. Young children are misguided by certain programmes featuring sex and violence.

- (a) If only argument I is strong
- (b) If only argument II is strong
- (c) If either I or II is strong
- (d) If neither I nor II is strong
- (e) If both I and II are strong

Directions (56-60): Study the following information carefully and answer the questions given below.

Nine persons – A, B, C, D, E, F, G, H and I are working in different departments- Production, Management, Marketing and Finance of a company, but not necessarily in the same order. At least two persons are working in each department.

C doesn't work in finance department whereas B neither work in management department nor works with C. G either works in finance department or production department but neither works with B nor C. Only A and D work in the same department but not in marketing department. E works with B but not in finance department. Only one person works with F who doesn't work in production department. The department in which I works doesn't have the maximum number of persons. I doesn't work in production department. Neither marketing nor management department has the maximum number of persons. I doesn't work with C whereas H doesn't work with G.

Q56. Who among the following person works in production department?

- (a) B
- (b) C
- (c) I
- (d) H
- (e) Both (a) and (d)

Q57. In which of the following department does F work?

- (a) Finance
- (b) Production
- (c) Management
- (d) Marketing
- (e) Either (a) and (b)

Q58. Four of the following five are alike in a certain way and hence form a group. Find the one that doesn't belong to that group.

- (a) The one who works with B
- (b) E
- (c) H
- (d) The one who works in production department
- (e) C

Q59. Which of the following statement is/are true with respect to the final arrangement?

I. Only two persons work in Production departments.

II. F works with G in finance department.

III. Neither B nor C works in the same department.

- (a) Only II
- (b) Both I and II
- (c) Both II and III
- (d) Both I and III
- (e) All statements are true

Q60. Who among the following person works in management department?

- (a) D
- (b) B
- (c) E
- (d) H
- (e) None of these

Directions (61-64): Study the following alphanumeric series carefully and answer the questions given below:

T @ 3 9 S 9 J L E U * K # 3 I O 9 \$ 4 Y Q % T @ 3 9 S I O 9 9 J L E U * K # 3 7 A 6 P & R

STEP I- The letters which are immediately preceded and immediately followed by a symbol are arranged in the end of the series in the alphabetical order.

STEP II- The symbols which are immediately preceded by the symbol and immediately followed by the number are arranged between & and R in the same order.

STEP III- The numbers which are immediately followed by letter are interchanged its position with respect to the element just after it.

(STEP II is applied after STEP I and STEP III is applied after STEP II)

Q61. How many letters are arranged at the end of the series in the step-1?

- (a) One
- (b) Three
- (c) Four
- (d) Five
- (e) More than five

Q62. Which among the following are the elements of the series which are second position from the left end and fifth position from the right end in step-III?

- (a) 63
- (b) @#
- (c) P#
- (d) AK
- (e) 6#

Q63. How many symbols are immediately followed by numbers in step-III?

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

Q64. How many symbols in between 7th element from left end and 6th element from right end in the final step?

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

Directions (65-69): Study the following information and answer the related questions:

Seven boxes are placed one above the other. They all are of different weight (only integer value). Total weight of all the boxes is 215kg. No box is less than 24kg and more than 37kg.

Only two boxes are placed above box L whose weight is a multiple of 7. Box D is placed four places below box L. The number of boxes placed above D is same as the number of boxes placed below the box whose weight is 3kg less than box L. One box is placed between box L and box F. Weight of box F is a square number. Weight of box B is a prime number which is placed just above box F. Box T is placed above box G but both are not placed adjacent to each other. Weight of box G is equal to the average weight of box B and box F. G's weight is not an even number. Total weight of box T and box G is 63kg. More than three boxes are placed below box C.

Q65. Which box is placed just above box T?

- (a) D
- (b) F
- (c) L
- (d) C
- (e) None of these

Q66. The weight of the box which is placed just below G is ____ kg?

- (a) 36
- (b) 31
- (c) 29
- (d) 28
- (e) None of these

Q67. How many boxes are placed between box T and box C?

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

Q68. How many boxes have more weight than B?

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

Q69. Which among the following combination of box and weight is correct?

- (a) B-31kg
- (b) G-28 kg
- (c) T-32 kg
- (d) D-33 kg
- (e) F-25 kg

Directions (70-72): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

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

Q70. What is the direction of D with respect to F?

Statement I: A is in West of B. C is in North-east of D. C is in South of B. F is in West of C.

Statement II: A is in North of E. F is in West of E. E is in North of B. D is in West of E.

Q71. In a five membered family, who is tallest person?

Statement I: Equal number of persons is shorter and taller than Daya. Arti is shorter than Arnav who is not the tallest. Jaya is just taller than Subhangi.

Statement II: Two persons between Arti and Arnav. Subhangi is taller than Jaya and shorter than Daya. Jaya is not the shortest person.

Q72. Six persons sit in circular table facing towards centre. Who sits immediate left of P?

Statement I: L sits two places away from B. One person sits between B and Q. K sits immediate right of Q but not sit near to B.

Statement II: P sits 2nd to the right of C. B sits 3rd to the left of C but not sit near to K.

Directions (73-74): Each of the questions below consists of a question and two statements numbered I, and II 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 answer the following questions.

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

Q73. Five persons buy a thing one after another. Find how many persons buy thing after T?

Statement I: One person buy thing between R and Q. At least two persons buy thing between S and R.

Statement II: Three persons buy thing between Q and T. R buy exactly between Q and T. S does not buy just before and just after T. P buy a thing after S.

Q74. Five boxes are arranged one above the other from top to bottom. Which of the following box is placed just below the box D?

Statement I: There are as many boxes below the box A is same as above E. Box B is placed below the box D but not just below.

Statement II: Box C is placed two places above the box E. More than one box is placed between the box A and box B. Box E and box D are not placed adjacent to each other.

Q75. In the given number "7549823184", the position of the first and tenth numbers are interchanged, similarly, the position of the second and ninth numbers are interchanged, and so on till the end. Then, what is the sum of the digits which are placed at odd numbered positions from right to left?

- (a) 34
- (b) 28
- (c) 30
- (d) 34
- (e) 27

Directions (76-78): Study the following information carefully to answer the related question:

X#Y means X is 11m north to Y

X€Y means X is 7m east to Y

XαY means X is 6m west to Y

X@Y means X is 13m south to Y

X%Y means X is 9m west to Y

XΩY means X is 8m south to Y

Q76. If P lies 10m to the north-west of L and O lies exactly between P and R either horizontally or vertically in the expression 'OαL#M€N' which holds true then, in which direction is M with respect to R?

- (a) South-west
- (b) South-east
- (c) North-west
- (d) East
- (e) Can't be determined

Q77. If the shortest distance between F and K is same as the distance between K and B which lies to the north of G in the expression 'FΩG@H, G%JαK' which holds true, then what will be the distance between B and H?

- (a) 6m
- (b) 10m
- (c) 8m
- (d) 5m
- (e) None of these

Q78. If 'M#AαB@S%R€N' holds true, then which among the following point do not lie in the south-west of N?

- (a) M
- (b) B
- (c) S
- (d) A
- (e) Either 'S' or 'M'

Q79. Four among the following five are same in a certain manner and belongs to a group. Which among the following does not belong to the group?

- (a) DGM
- (b) ILR
- (c) LOU
- (d) CFK
- (e) PSY

Directions (80-84): Words and numbers are arrangement machines when given an input line of numbers rearrange them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: Engage Bean 15 92 Cramp Dream 21 45 Glue 33

Step I: Bean 45 Engage 15 92 Cramp Dream 21 Glue 33

Step II: Bean 45 Cramp 92 Engage 15 Dream 21 Glue 33

Step III: Bean 45 Cramp 92 Dream 33 Engage 15 21 Glue

Step IV: Bean 45 Cramp 92 Dream 33 Engage 15 Glue 21

And step IV is the last step of the arrangement. As per the above rule followed in the above steps, find out in each of the following questions the appropriate step for the given input:

Input: 38 42 Keep Neat Hold 51 63 Lake Peace 17

Q80. How many words are between "38" and "Peace" in the last step?

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

Q81. How many steps are required to complete the arrangement?

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

Q82. Which of the following element is second to the left of the element which is third from the right end in step IV?

- (a) Peace
- (b) Keep
- (c) 42
- (d) 17
- (e) Neat

Q83. What is the sum of the elements which are third from the right end in step III and second from the left end in step II?

- (a) 68
- (b) 105
- (c) 80
- (d) 70
- (e) 89

Q84. As many elements are arranged to the left of "Lake" in step IV is the same as the number of elements are arranged to the right of ____ in step II?

- (a) 17
- (b) Neat
- (c) Lake
- (d) 38
- (e) Keep

Directions (85-89): Study the following information carefully and answer the questions that follow:

Twelve persons- O, P, Q, R, S, T, U, V, W, X, Y and Z are living in the four-floor building (but not necessarily in the same order). The ground floor is numbered as 1, the floor just above it is numbered as 2 and so on till the top most floor is numbered as 4. Each floor has 3 flats in it i.e., flat 1 and flat 2 and flat 3. Flat 1 of floor 2 is immediately above flat 1 of floor 1 and immediately below flat 1 of Floor 3 and so on. Flat 2 of Floor 2 is immediately above flat 2 of floor 1 and immediately below flat 2 of Floor 3. In the same way, flat 3 of Floor 2 is immediately above flat 3 of floor 1 and immediately below flat 3 of Floor 3 and so on. Flat 1 is exactly to the west of Flat 2 which is exactly to the west of flat 3.

R lives on an even numbered floor to the south east of U. P lives just above U's flat. Two floors gap between T and P. Y lives two floors above T and lives to the east of W. T lives in prime numbered flat and to the south east of X. X doesn't live in odd numbered flat. S lives to the north west of Z. S and O live on the same floor. V lives below Q. X lives in the south of U.

Q85. On which of the following floor and flat does V live?

- (a) 2nd floor, flat 1
- (b) 4th floor, flat 2
- (c) 2nd floor, flat 3
- (d) 1st floor, flat 1
- (e) None of these

Q86. How many floor(s) gaps is/are between O and T?

- (a) One
- (b) Two
- (c) Either 'one' or 'two'
- (d) None
- (e) Can't be determined

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

- (a) P
- (b) R
- (c) U
- (d) X
- (e) Z

Q88. Which among the following statement(s) is/are true?

I. Y and O live on the same floor

II. S lives just above W's flat

III. Q lives in flat 3

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

Q89. Who among the following lives in flat 3rd on floor 3?

- (a) T
- (b) Y
- (c) U
- (d) S
- (e) None of these

Q90. Two labours with one mason have come to complete the remaining work in a house. After half day owner himself guided and inspected their work. Total cost charged by them is 2000 rupees.

Which of the following can be assumed from the given statement?

- (I) Owner was not satisfied by their work as he decided to inspect after half day.
- (II) Charge of mason is more than charge of two labours together.
- (III) Both the labours are talkative in nature.

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

Q91. A boat whose speed is same as speed of a car i.e. x km/hr can travel d km upstream and return to the initial point in $8\frac{1}{3}$ hours. While, the time taken by car to cover total distance travelled by the boat is $\frac{1}{3}$ hour less than that by boat. If the time taken by the boat to cover 18 km downstream is 30 minutes more than to cover 6 km upstream and speed of stream is y km/hr, then which of the option is equal to the time taken by the boat to cover $(2d+90)$ km in still water.

- (i) $\frac{d}{x-y} + 3y$
- (ii) $\frac{d}{x-y} - 3y$
- (iii) $\frac{180}{x+y} + 4$
- (a) Both (i) & (iii)
- (b) Both (ii) & (iii)
- (c) Both (i) & (ii)
- (d) only (iii)
- (e) only (i)

Q92. The ratio of cost price and marked price of an article is $A:B$. The ratio of selling price and marked price is $(B + 1) : (B + 2)$. If discount offered on the article is Rs.30, then, its selling price becomes Rs.120 (A & B are natural number and $A < B$).

Which of the following is / are correct?

- (i) B is a prime number.
- (ii) Maximum profit can be Rs.70.
- (iii) Cost price can be Rs.150.
- (a) Only (i) and (ii)
- (b) Only (i) and (iii)
- (c) Only (ii) and (iii)
- (d) Only (i)
- (e) None of these

Q93. X liter of mixture of milk and water contains 25% of water. Which of the following option (s) is /are true.

- (i) If $X/4$ liter of water added to the mixture, then water becomes 60% less of the total mixture.
- (ii) If $\frac{9X}{20}$ liter milk is removed from the mixture, then the ratio of milk and water is 6:7.
- (iii) 25% of mixture taken out the then difference between quantity of milk and initial quantity of water in the mixture is $\frac{5X}{16}$ liter.
- (a) Only (i) and (ii)
- (b) Only (i) and (iii)
- (c) Only (ii) and (iii)
- (d) Only (i)
- (e) None of these

Q94. The roots of $\frac{x^2}{3} - (11m)x + 90 = 0$ is p & q, where roots are natural number. The sum of square of both the roots is 549.

Which of the following is/are true?

- (i) $m = 1$
- (ii) Roots are 18 and 12.
- (iii) difference of roots is 3.
- (a) Only (i) and (ii)
- (b) Only (i) and (iii)
- (c) Only (ii) and (iii)
- (d) Only (i)
- (e) None of these

Q95. Rs. $(2000+x)$ is invested at 10% CI for two years. The interest received is Rs.525. The interest received on 'm' times the amount x is invested again in compound interest at 20% interest rate for same time period is $(y+1)$ times Rs.880. which of the following option (s) is/are incorrect?

- (i) $m = 4(y+1)$
- (ii) $x = \text{Rs.}500$
- (iii) $x = \text{Rs.}1500$
- (a) Both (i) and (ii)
- (b) Both (i) and (iii)
- (c) Both (ii) and (iii)
- (d) only (iii)
- (e) None of these

Q96. The volume of a cube is 2744 cm^3 . A circle whose diameter is same as the side of the cube drawn on each face of the cube. The cost of painting the circular part with red and remaining part with blue at the cost of Rs.x per m^2 and Rs. $(x - 5)$ per m^2 . If the total cost of painting is Rs.6972, then find the value of x.

- (a) 11
- (b) 10
- (c) 9
- (d) 6
- (e) 7

Q97. AB is a two-digit number where A is on tenth place and B is on unit place. The product of A and B is zero. Unit digits of A^3, A^2, A are same, where A is unit digit of given number. Which of the option is nearest to possible values of the two - digit number.

- (a) 9, 49 & 64
- (b) 9, 36 & 100
- (c) 64, 81 & 121
- (d) 196, 121 & 16
- (e) None of these

Q98. Which of the following statement/s is or are required to find the total profit earned in the business at the end of the year.

Statement 1: A and B entered in a partnership by investing Rs. (X+1000) and Rs. (Y+1000) respectively. C joined them after 3 months with some investment Rs. Z.

Statement 2: At the end of the year the profit share of C is Rs.12000.

Statement 3: The difference between profit share of A and B after one year is Rs.1500.

- (a) 1 and 2 together
- (b) 2 and 3 together
- (c) 1 and 3 together
- (d) All together
- (e) None together

Q99. Which of the following statement/s is or are required to find the ratio of age of A after 6 years and age of B two years ago.

Statement 1: The sum of present ages of A and B is 78 years.

Statement 2: B is 34 years older than A and 12 years older than C.

Statement 3: Ratio of present ages of A and C is 1:2.

- (a) either 1 & 2 together or 2 & 3 together
- (b) 1 and 3 together
- (c) only 3
- (d) All together
- (e) None together

Q100. If one root of equation $x^2 + Px + 84 = 0$ is - 21, then the value of P is how much more than another root of the given equation.

- (a) 14
- (b) 12
- (c) 25
- (d) 27
- (e) 29

Directions (101-106): Read the information and answer the following questions.

There are total Y students (boys + girls) in a school. Each student like at least one sport out of three sports (A, B & C). The number of students who like all the three sports is 114.

16% of the total students like A and B but not C. 13% of the total students like B and C but not A. 4% of the total students like A and C but not B. The ratio of number of students who like only A, only B and only C is 2: 3: 1 respectively. Total number of students who like at least two sports are 312.

Q101. Find the number of students who like only one sport.

- (a) 288
- (b) 144
- (c) 114
- (d) 324
- (e) 124

Q102. Find the difference between number of students who like only one sport and who like all the sports together.

- (a) 188
- (b) 144
- (c) 174
- (d) 124
- (e) 164

Q103. The students who like only two sports together, one-third are girls. Find the number of boy students who like only two sports together.

- (a) 138
- (b) 144
- (c) 114
- (d) 132
- (e) 134

Q104. Find the value of Y.

- (a) 480
- (b) 250
- (c) 200
- (d) 400
- (e) 600

Q105. The number of students who like all the three sports together are what percentage less than the total number of students in the school.

- (a) 80%
- (b) 81%
- (c) 20%
- (d) 40%
- (e) 10%

Q106. Find the ratio of girls to boys in the school.

- (a) 4:5
- (b) 22:21
- (c) 20:21
- (d) Can't determine
- (e) None of these

Direction (107–109): Solve the series and answer the following questions given below.

Series 1: 87 B $(2a+15)$ $(30^2 + 6)$ $(103 + Z)$ 1076 1101

Series 2: $(a+58)$ 492 529 Y 639 712 749

Note – $B = 87 + a$

Q107. Find the value of a.

- (a) 361
- (b) 342
- (c) 356
- (d) 344
- (e) 352

Q108. Find the value of Z.

- (a) 654
- (b) 924
- (c) 656
- (d) 644
- (e) 652

Q109. Find the value of B

- (a) 548
- (b) 428
- (c) 568
- (d) 448
- (e) 528

Q110. If x and y are the terms of series 1, then find the sum of x and y.

Series 1 - 6, 9, 14, 21, x, 45, y

- (a) 94
- (b) 92
- (c) 83
- (d) 91
- (e) 97

Q111. In how much time A and B together can complete the whole work?

Statement 1- A and B can complete the work working alternatively starting from A in 16 days

Statement 2 - Ratio of efficiency of A and B is 2 : 1

Statement 3 - C can complete the work alone in 36 days while A and C together can complete the work in 9 days

- (a) 1 and 2 together
- (b) 2 and 3 together
- (c) Either 1 alone or 2 & 3 together
- (d) All together
- (e) None together

Q112. Find the wrong number in the given series.

140, 160, 182, 206, 234, 260

- (a) 140
- (b) 234
- (c) 182
- (d) 206
- (e) 260

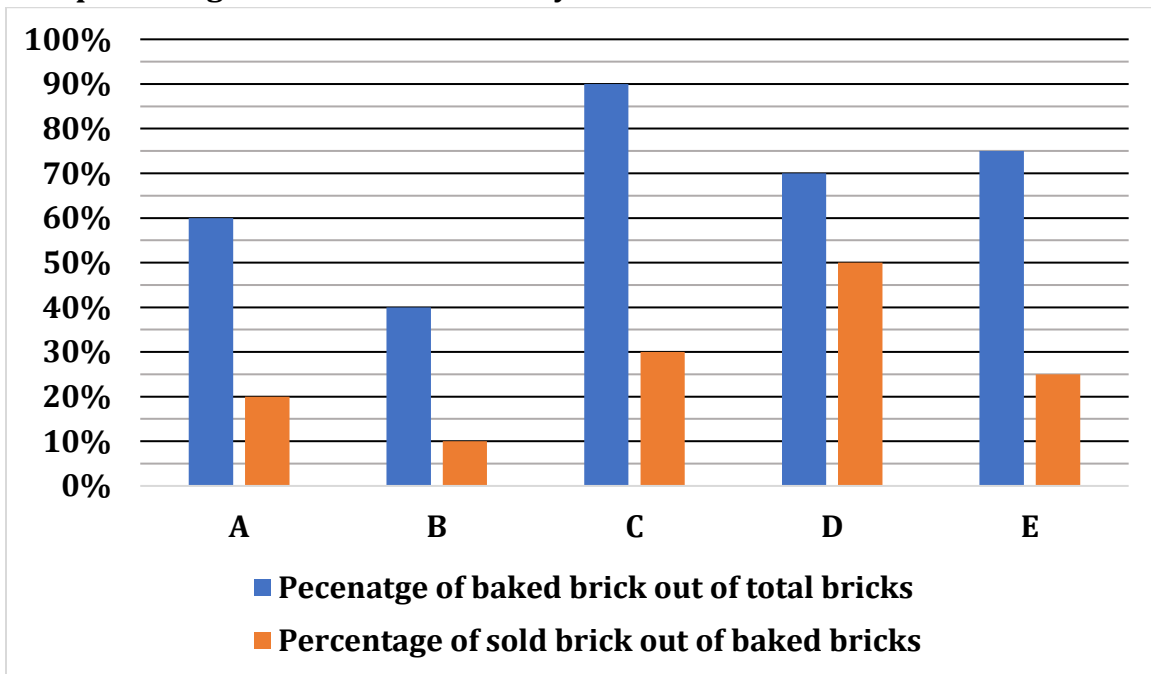
Q113. There are two equations I. $x^2 - 14x + 24 = 0$ and II. $y^2 + 8y + 15 = 0$. The highest root of equation I is what percentage of lowest root of equation II.

- (a) 66%
- (b) - 125%
- (c) 125%
- (d) - 240%
- (e) 240%

Q114. There are two equations I. $x^2 + 7x + C = 0$ and II. $y^2 + 21y + 68 = 0$. The even root of equation (II) is one of the roots of equation (I). Find the value of C.

- (a) 10
- (b) 12
- (c) 13
- (d) 21
- (e) 7

Direction (115–120): The bar graph shows the percentage of baked bricks out of total bricks in five brickfield and percentage of baked brick sold by each brickfield.



Note – (i) Total number of baked bricks in C is 360.

(ii) Total number sold baked brick in D is 350.

(iii) Total bricks = baked bricks+ unbaked bricks

(iv) Total baked brick = sold baked bricks + unsold baked bricks.

Q115. Find the unsold baked bricks by D.

- (a) 350
- (b) 250
- (c) 150
- (d) 450
- (e) 600

Q116. Find the sum of total bricks in C and D.

- (a) 1480
- (b) 1250
- (c) 1200
- (d) 1400
- (e) 1600

Q117. Find the ratio of unbaked bricks in C to that in D.

- (a) 4:5
- (b) 22:21
- (c) 15:2
- (d) 2:15
- (e) 1:21

Q118. If the total number of bricks in A is 50% more than unbaked bricks by D, then find the number of sold baked bricks by A.

- (a) 54
- (b) 42
- (c) 56
- (d) 44
- (e) 52

Q119. The number of sold baked bricks by B is what percentage of unbaked bricks by B.

- (a) 6.66%
- (b) 3.33%
- (c) 12.5%
- (d) 10%
- (e) 15%

Q120. Unbaked bricks of E are same as that of D. Find unsold baked bricks by E.

- (a) 680
- (b) 650
- (c) 625
- (d) 675
- (e) 600

SOLUTIONS

S1. Ans.(d)

Sol. The sentence with an error is:

(d) The team celebrated their victory after they have scored the winning goal in the final minutes of the game.

Explanation: 'have scored' should be replaced by 'had scored'.

The use of "had scored" in this sentence represents the past perfect tense, indicating that the scoring of the winning goal occurred before another past event (the team celebrating their victory).

S2. Ans.(c)

Sol. The correct sequence is BADC. "Eager students engaged in lively discussions, exchanging ideas that sparked intellectual curiosity and growth."

S3. Ans.(b)

Sol. The correct sequence is ACDB. Nurturing trust and communication form the foundation of enduring and fulfilling connections between individuals.

S4. Ans.(d)

Sol. The correct sequence is DCAEB.

S5. Ans.(b)

Sol. The phrase "out of hand" is used to describe a situation that is no longer under control, becoming chaotic or unruly. In both sentences, this phrase fits the context well:

(I) "The argument between the coworkers quickly got out of hand, escalating into a heated and unproductive exchange." Here, the use of "out of hand" suggests that the argument became uncontrollable and escalated negatively.

(II) "The party's noise levels were getting out of hand, prompting the neighbors to complain about the disturbance." In this case, "out of hand" implies that the noise levels were becoming excessive and unmanageable, leading to complaints from neighbors.

S6. Ans.(a)

Sol. The phrase "to go south" is an idiomatic expression that means things are not progressing well, and the situation is deteriorating or becoming unfavorable.

In the given sentences:

(I) "The job interview seemed promising initially, but nerves got the best of the candidate, causing the interview to go south." Here, the use of "to go south" implies that the candidate's nervousness had a negative impact on the interview, and it did not turn out well as initially expected.

(II) "The situation started to go south when conflicts arose among team members." In this context, "to go south" suggests that the situation began to worsen or become problematic when conflicts emerged within the team.

S7. Ans.(e)

Sol. The phrase "faced unexpected challenges" is used when describing situations where unforeseen difficulties or obstacles arise. It suggests that the individuals or team encountered difficulties that were not initially anticipated.

In the given sentences:

(I) "The research team faced unexpected challenges when the laboratory equipment malfunctioned." Here, the phrase indicates that the team encountered unforeseen difficulties due to the malfunctioning laboratory equipment.

(II) "The project faced unexpected challenges, and the initial smooth progress turned into a complex situation." In this context, the phrase conveys that the project encountered unanticipated difficulties, leading to a shift from the initial smooth progress to a more complex and challenging situation.

S8. Ans.(d)

Sol. Refer to the lines, "However, targeted efforts to equally distributing the resources and introducing policies to enhance economic opportunities, such as microfinance initiatives and entrepreneurship support, can uplift communities, fostering self-sufficiency and breaking the chains of poverty."

Let's analyze the options:

(I) Implementing targeted efforts such as microfinance initiatives and entrepreneurship support directly addresses economic inequality and fosters self-sufficiency.

(II) Developing initiatives aimed at eradicating corruption and fostering a culture of transparency, as mentioned earlier, is more focused on good governance and transparency rather than directly addressing economic inequality.

(III) Introducing comprehensive policies to bridge income gaps by fostering self-sufficiency is directly related to economic inequality and upliftment.

(IV) Advocating for equitable distribution of resources and opportunities to uplift marginalized communities is another strategy directly addressing economic inequality.

S9. Ans.(b)

Sol. Refer to the lines, "Political stability is integral to sustainable development. Governance reforms that tackle corruption and promote transparency strengthen institutions, fostering an environment conducive to progress."

In the passage, the information states that political stability is integral to sustainable development. The specific link between political stability and sustainable development is highlighted in the statement, "Political stability fosters an environment conducive to progress and growth." This indicates that when a nation experiences political stability, it creates a favorable environment for advancements, progress, and overall growth. Political stability is seen as a foundational element that supports and encourages sustainable development within a country. Therefore, option (b) correctly captures the essence of the relationship between political stability and sustainable development as presented in the provided information.

S10. Ans.(b)

Sol. Refer to the lines, "International collaborations and investments in educational infrastructure can bridge the existing gaps, empowering individuals to contribute meaningfully to their communities and the global economy."

Explanation:

In the context of education as a catalyst for change, the passage emphasizes the significance of international collaborations. The relevant information indicates that access to quality education is considered a fundamental right that unlocks doors to a better future. International collaborations are highlighted as a means to bridge existing educational gaps and empower individuals. Therefore, option (b) aligns with the positive aspect of international collaborations in addressing educational disparities and promoting positive change.

S11. Ans.(e)

Sol. Refer to the lines, "Governance reforms that tackle corruption and promote transparency strengthen institutions, fostering an environment conducive to progress. A robust legal and regulatory framework creates a foundation for economic investments, driving growth and development."

Explanation:

In the passage, beyond governance reforms, the critical component suggested for fostering an environment conducive to progress is the promotion of transparency and openness in governance. This aligns with the idea that good governance involves measures that increase transparency and openness, creating an environment that is conducive to progress and development. Therefore, option (e) accurately reflects the recommended approach for fostering progress in the given context.

S12. Ans.(d)

Sol. The overarching theme emphasized as the path to sustainable development for third-world countries, according to the information provided, is "Collective and comprehensive solutions." The passage mentions that third-world countries face challenges that require comprehensive and collaborative solutions. This indicates that addressing the multifaceted issues these countries encounter, such as economic disparities, healthcare inadequacies, and educational barriers, requires a collective effort and a comprehensive approach. Therefore, option (d) accurately captures the main idea of the passage, highlighting the importance of collective and comprehensive solutions for sustainable development in third-world countries.

S13. Ans.(e)

Sol. The phrase "unlock doors to a better future" in reference to the accessibility to quality education implies providing opportunities for personal and community development. The passage mentions that access to quality education is considered a fundamental right that unlocks doors to a better future. The context emphasizes that quality education is a key catalyst for change and improvement in individuals' lives and the broader community.

Option (e) accurately reflects this idea, as it states, "Encourage inclusive and quality education for personal and community development." This aligns with the notion that quality education is not only individual-centric but also plays a crucial role in the development of the community as a whole.

S14. Ans.(a)

Sol. The suitable word to fill the given blank is:

(a) conducive

Meaning of the words:

(a) Conducive: Tending to lead to or contribute to a particular result; favorable or advantageous.

(b) Affective: Relating to or arising from emotions, feelings, or moods; expressing emotion.

(c) Redundant: Unnecessarily repetitive or superfluous; exceeding what is necessary.

(d) Acknowledging: Recognizing or admitting the existence or truth of something; expressing acknowledgment.

(e) Measuring: Determining the size, amount, or degree of something; assessing or quantifying.

S15. Ans.(c)

Sol. The word synonymous with "fostering" is:

(c) Nurturing

Meaning of words

(a) Suppressing: Preventing the development, action, or expression of something; restraining or holding back.

(b) Overviewing: Providing a general summary or review; giving an overall perspective.

(c) Nurturing: Caring for and encouraging the growth or development of someone or something; fostering.

(d) Raising: Lifting or elevating to a higher position; bringing up or nurturing.

(e) Neglecting: Failing to care for or pay attention to; disregarding or ignoring.

S16. Ans.(b)

Sol. The correct usage of the idiom "give a big hand" is reflected in options (I) and (III).

In (I), the sentence "The charity organization gave a big hand to the donors who contributed generously to support their cause" uses the idiom correctly. Here, "give a big hand" implies expressing gratitude or appreciation to the donors for their generous contributions.

In (III), the sentence "The audience stood up and gave a big hand to the speaker for delivering an inspiring and motivational speech" also uses the idiom appropriately. In this context, "give a big hand" means showing appreciation or applause to the speaker for their inspiring speech.

However, in (II), the sentence "The weather forecast looked promising, but unfortunately, they gave a big hand with unexpected rain and thunderstorms" uses the idiom incorrectly. In this context, the idiom does not convey a suitable meaning. The correct expression in this scenario might be "threw a curveball" or "played a trick," as "gave a big hand" does not align with the context of unexpected weather conditions.

S17. Ans.(d)

Sol. The idiom "thrash out" is correctly used in sentence (II), which is:

(II) "The collaborators decided to thrash out the creative differences to produce a cohesive artistic vision." In this context, "thrash out" means to discuss and resolve differences or disagreements through intense and thorough conversation. The sentence conveys that the collaborators engaged in discussions to resolve their creative differences and create a unified artistic vision.

However, sentences (I) and (III) use the idiom incorrectly:

(I) "With a series of successful product launches, the company thrash out in the market." - The phrase "thrash out" is not suitable in this context. A more appropriate expression might be "made strides" or "made an impact."

(III) "Conservation efforts are crucial in thrashing out endangered species and protecting the delicate balance of ecosystems." - Here, "thrashing out" doesn't convey the intended meaning of carefully addressing or resolving the issues related to endangered species. A more fitting term could be "addressing" or "protecting."

S18. Ans.(b)

Sol. The word "grapple" is appropriate in this context because it conveys the idea that European countries are dealing with or struggling with the persistent challenge of oil dependency.

Meaning of words:

(a) **Conflict:** A serious disagreement or argument; a state of opposition between two or more parties.

(b) **Grapple:** To struggle or wrestle with something or someone; to deal with a difficult problem.

(c) **Subdue:** To overcome or bring under control, often through force or persuasion; to make less intense or severe.

(d) **Adjusts:** To make changes or adaptations to something to make it more suitable or accurate.

(e) **Validates:** To confirm the accuracy, truth, or validity of something; to give official approval or legal validity.

S19. Ans.(d)

Sol. "Fluctuations" is the right choice as it aligns with the uncertainties and changes that can occur in the oil market.

Meaning of words:

(a) **Demonstrations:** Public displays or actions expressing a viewpoint, often in a protest or advocacy context.

- (b) **Expansion:** The act of increasing in size, volume, quantity, or scope; growth or extension.
- (c) **Diversion:** The act of turning aside or redirecting; an activity that distracts attention.
- (d) **Fluctuations:** Variations or changes in a quantity, quality, or level, often occurring irregularly.
- (e) **Distractions:** Things that divert or draw attention away from the main focus; interruptions or diversions.

S20. Ans.(b)

Sol. "Vulnerability" is suitable here, as it indicates that there is a concerted effort to address the weakness or susceptibility posed by the dependency on imported oil.

Meaning of words:

- (a) **Opportunity:** A favorable chance or circumstance; a situation that allows for progress or advancement.
- (b) **Vulnerability:** The state of being open to harm, damage, or attack; susceptibility to negative influences.
- (c) **Possibility:** The state or condition of being possible; a potential or feasible occurrence.
- (d) **Reliability:** The quality of being dependable, trustworthy, or consistent in performance.
- (e) **Durability:** The ability to withstand wear, pressure, or damage over time; the quality of being long-lasting or sturdy.

S21. Ans.(c)

Sol. "Pursuit" is the correct option as it signifies that the aim or goal of achieving a greener, more self-sufficient energy landscape is actively being sought after in Europe's strategic initiatives.

Meaning of words:

- (a) **Demands:** Requests or requirements, often with a sense of urgency or necessity.
- (b) **Compulsion:** The act of being forced to do something; a strong, irresistible urge or force.
- (c) **Pursuit:** The action of seeking to achieve or accomplish a goal; the act of following or chasing.
- (d) **Charity:** The voluntary giving of help, typically in the form of money, to those in need; benevolent activities.
- (e) **Conclusion:** The end or finish of an event or process; a final decision or judgment reached after consideration.

S22. Ans.(c)

Sol. The sentence with an error is:

- (c) The research findings was disparate, leading to conflicting interpretations among the scientific community.

Explanation: The subject "research findings" is plural, so the verb should also be plural. Therefore, "was" should be corrected to "were" to maintain subject-verb agreement.

S23. Ans.(b)

Sol. The error is subject-verb agreement. "Neither" is singular, so "has" should be used instead of "have."

S24. Ans.(a)

Sol. The inversion rule requires placing the adverb "never" before the auxiliary verb "had." The corrected sentence maintains the correct word order. Therefore, the correct answer is (a) A.

S25. Ans.(a)

Sol. The phrase "Despite of" should be corrected to "Despite." The correct usage is "Despite" followed by the noun or pronoun without the preposition "of." Therefore, the correct answer is (a) A.

S26. Ans.(a)

Sol. The error in the sentence is in part (A). The correct sentence should be:

"She could have finished (A)/ the assignment earlier (B)/ if she had (C)/ started it sooner. (D)"

The phrase "could of" should be corrected to "could have." "Could have" is the correct construction when expressing a possibility in the past. Therefore, the correct answer is (a) A.

S27. Ans.(d)

Sol. The error is subject-verb agreement. "Everyone" is singular, so "has" should be used instead of "have."

S28. Ans.(c)

Sol. Refer to the lines, **"With each sapling he planted, Raj became the beacon of change, proving that even a small boy from a humble village could make a significant impact in the global battle for a sustainable future."**

As a result of Raj's efforts, the village underwent a transformation by embracing a sustainable lifestyle. This implies that the villagers, inspired by Raj's campaign, adopted practices that prioritize environmental conservation and responsible resource usage. The specific actions may include planting more trees, actively participating in recycling initiatives, and generally promoting eco-friendly habits. Raj's influence not only brought about positive changes in the village's physical landscape but also in the mindset and behaviors of its inhabitants towards more sustainable and environmentally conscious practices.

S29. Ans.(d)

Sol. The sentence with an error is:

(d) The teacher requested the students to not talk during the exam.

Explanation: The grammatical rule being applied in this correction involves the positioning of the word "not" when used with certain verbs, particularly those expressing requests or commands.

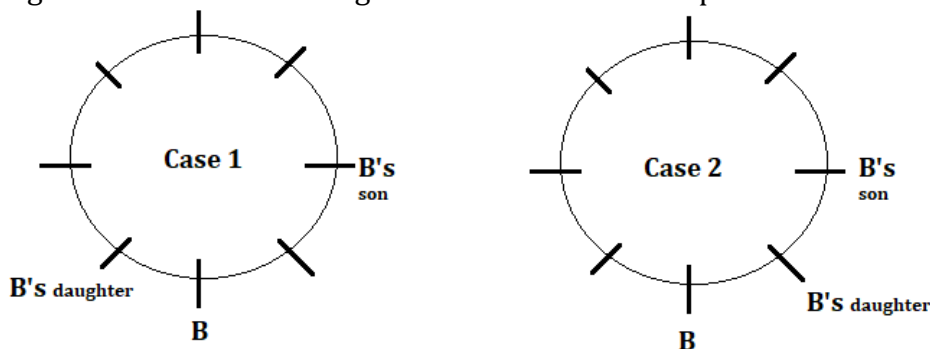
In English, it is generally preferred to place "not" before the infinitive verb, rather than between "to" and the verb. This is often the case when the verb follows a main verb like "request," "ask," "tell," and others.

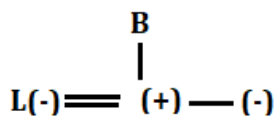
S30. Ans.(d)

Sol. The sentence (d) stands out because it deviates from the overall theme of recognizing the efforts and intentions of the contemporary education system. While the other sentences acknowledge the system's attempts to adapt to the changing world and prepare students for the future, sentence (d) takes a more critical stance, stating that the system inadequately prepares for the rapidly changing job market and technological advancements. This statement introduces a negative perspective that contrasts with the generally positive and progressive tone of the other sentences.

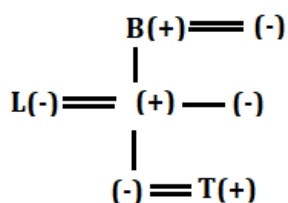
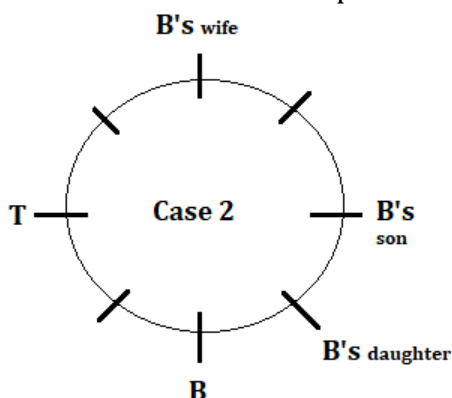
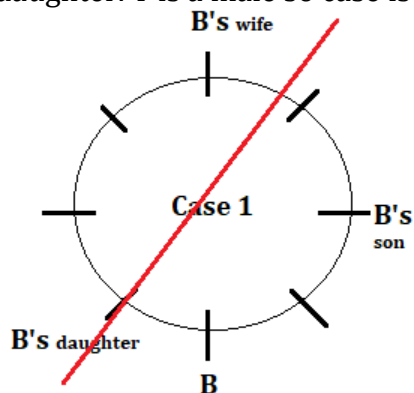
Solutions (31-35):

From the given statements, L is the daughter-in-law of B who sits 2nd to the left of his son. B and his daughter are immediate neighbours. Here we have 2 possible cases.

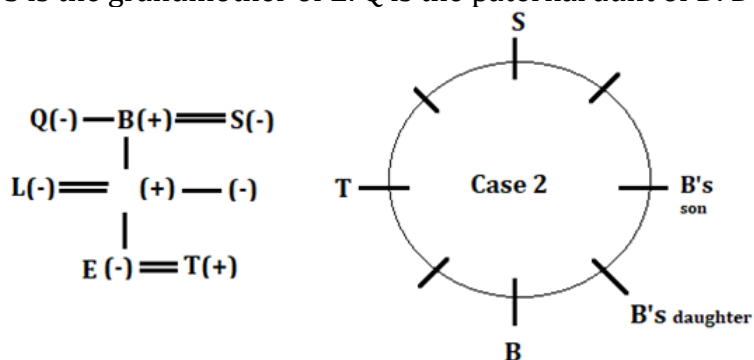




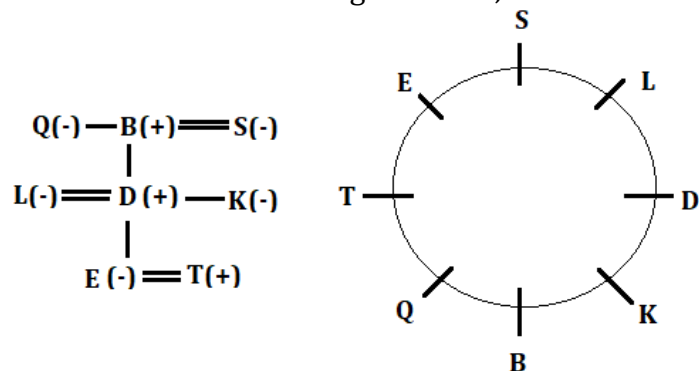
B and his wife sit opposite to each other. T is the only son's son-in-law of B and sits 3rd to the left of B's daughter. T is a male so case is ruled out now because we can't place T in case 1.



S is the grandmother of E. Q is the paternal aunt of D. D can be either B's daughter or B's son.



K sits 2nd to the left of L. From this condition we get the complete blood tree relation. B's sister and B's wife are not an immediate neighbour. So, the final arrangement is -



S31. Ans.(b)

Sol. Three persons sit between T and D

S32. Ans.(a)

Sol. K is the niece of Q

S33. Ans.(d)

Sol. E is D's daughter and Q is S's sister-in-law so, E sits 2nd to the left of Q.

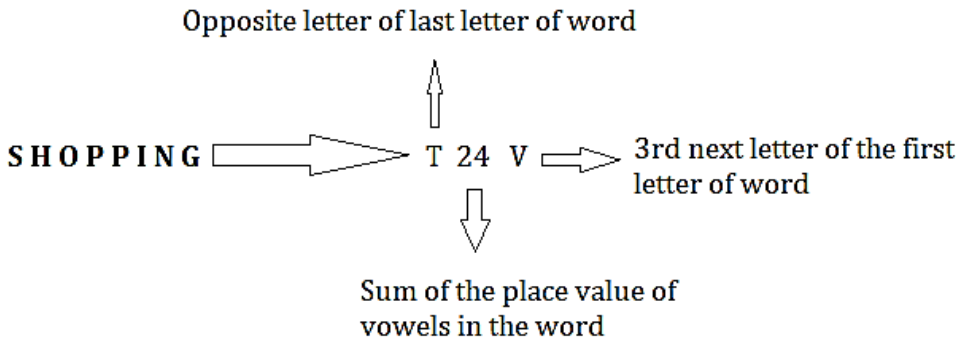
S34. Ans.(c)

Sol. T's mother-in-law is L. S and L are immediate neighbours.

S35. Ans.(a)

Sol. Except D all they are female members

Solutions (36-39):



S36. Ans.(b)

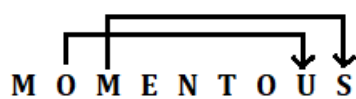
S37. Ans.(c)

S38. Ans.(a)

S39. Ans.(d)

S40. Ans.(a)

Sol.



Directions (91-95):

From the given statements, R chants just before the one who chants in Tirupati Balaji but not in the same month. R neither chants in January nor in May. Here we get 2 possible cases that R either chants in March or in April.

Month	Date	Case 1		Case 2	
		Persons	Places	Persons	Places
January	3				
	16				
March	3				
	16	R			
April	3		Tirupati Balaji		
	16			R	
May	3				Tirupati Balaji
	16				

The number of saints chant before R is equal as after Q. More than two saints chant between Q and the one who chants in Meenakshi temple. Four saint chants between the ones who chants in Meenakshi temple and Somnath temple. Q does not chant in Somnath temple. From these condition case 2 is ruled out now.

Month	Date	Case 1		Case 2	
		Persons	Places	Persons	Places
January	3		Meenakshi temple		
	16				
March	3			Q	
	16	R			
April	3	Q	Tirupati Balaji		
	16		Somnath temple	R	
May	3				Tirupati Balaji
	16				Meenakshi temple

The one who chants in Badrinath temple chants before the one who chants in Konark temple but both of them chant on odd date. Now only one option left here. V chants just after the one who chants in Golden temple but not in the same month. S chants in Jagannath temple.

Month	Date	Case 1	
		Persons	Places
January	3		Meenakshi temple
	16		Golden temple
March	3	V	Badrinath temple
	16	R	
April	3	Q	Tirupati Balaji
	16		Somnath temple
May	3		Konark temple
	16	S	Jagannath temple

T chants just before P in the same month. More than one saint chant between U and the one who chants in Ramnath swamy temple. Now only one place left which is for W. So, the final arrangement is-

Month	Date	Persons	Places
January	3	T	Meenakshi temple
	16	P	Golden temple
March	3	V	Badrinath temple
	16	R	Ramnath swamy temple
April	3	Q	Tirupati Balaji
	16	W	Somnath temple
May	3	U	Konark temple
	16	S	Jagannath temple

S41. Ans.(a)

Sol. Four saints chant between V and the one who chant in Jagannath temple

S42. Ans.(a)

Sol. U chants on 3rd May

S43. Ans.(c)

Sol. W chant on 16th of the month in Somnath temple

S44. Ans.(d)

Sol. Statement II and III are not true

S45. Ans.(c)

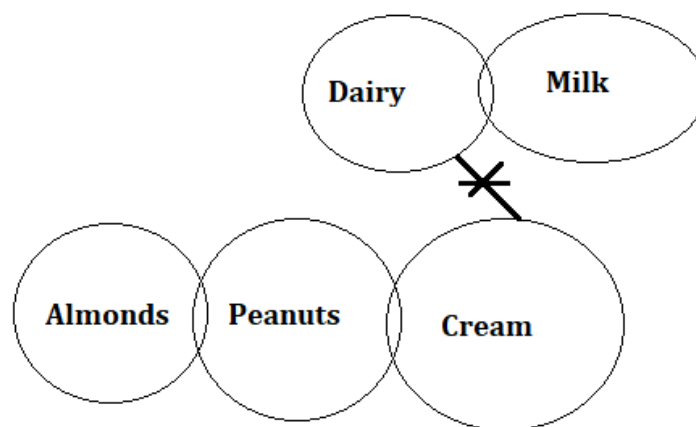
Sol. The number of saints chant between P and U is twice than the number of saints chant between W and the one who chant in Badrinath temple

S46. Ans.(c)

Sol. I not followed- As per the Venn diagram No Cream is Dairy and some parts of Cream are in Peanuts so, All Peanuts are not dairy even in the possibility case.

II not followed- There is no direct relation between Peanuts and Milk so, its does not follow.

III followed- in the statement where mention that Only a few Peanuts are Cream so it's definitely holds true that some parts of Peanuts are not Cream.

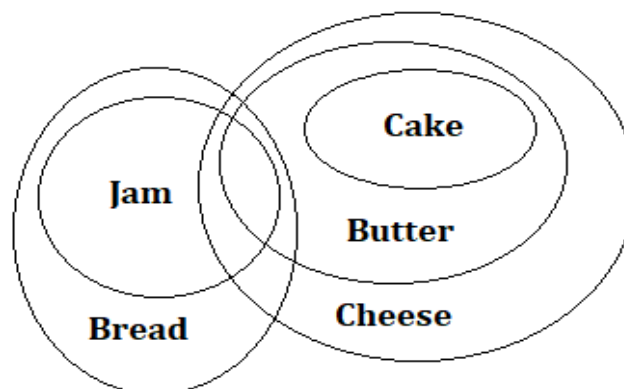


S47. Ans.(d)

Sol. I not followed- As per the Venn diagram we see that some Cheese are Bread and there is no negative statement regarding these elements so it does not true.

II follow- There is no direct relation given between cake and bread. So, this will hold true in possible case.

III follow- As per the Venn diagram we see that All Butter can be Jam which is holds true.



S48. Ans.(b)

Sol. first, second, fourth, fifth and eighth letter of the word '**IMPRISONER**' – I, M, R, I and N
No meaningful word formed.

S49. Ans.(e)

Sol. Connection to common people and their basic needs is the most important tool to get success in election. So, it may be one of the reasons. Rallies by top ministers help in attracting voters. Promotion with injured left foot may help in gaining sympathy of Bengal people.

S50. Ans.(d)

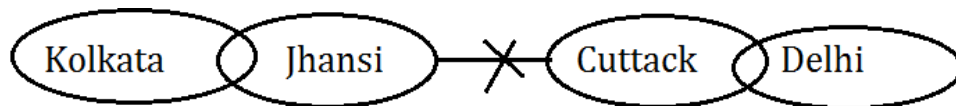
Sol. By assuming that rallies by top ministers attract the voters to vote towards the party, BJP has entered the top ministers and chief ministers. In statement it is said that 8 phases of election, it means election commission takes a long duration of time to conduct election in Bengal. There is nothing discussed about election in two more states.

S51. Ans.(b)

Sol. Statement II is the cause and Statement, I is its effect as after a landslide victory of TMC, workers has started celebration and if there is celebration of winning by one party there will be some conflict with opposition.

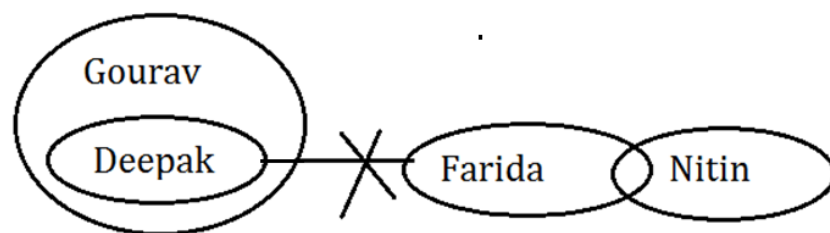
S52. Ans.(d)

Sol.



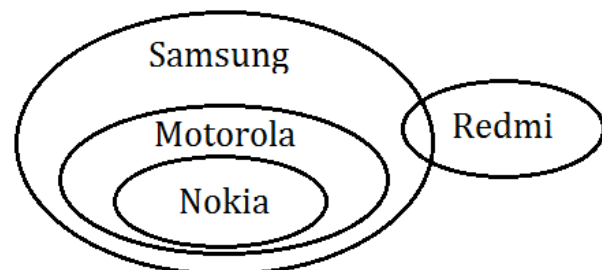
S53. Ans.(c)

Sol.



S54. Ans.(b)

Sol.



S55. Ans.(a)

Sol. For education in covid era, smartphone or laptop is much needed. It cannot be avoided. But certain apps and websites should be restricted in mobile and through internet service provider to prevent certain programmes featuring sex and violence.

Solutions (56-60):

G either works in finance department or production department but neither works with B nor C. C doesn't work in finance department whereas B neither work in management department nor works with C. Only A and D work in the same department but not in marketing department.

	Production	Management	Marketing	Finance
Case 1	C	A,D	B	G
Case 2	G	C	B	A,D
Case 1b	A,D	C	B	G
Case 2a	G	A,D	C	B
Case 1a	B	A,D	C	G

E works with B but not in finance department. So, case 2a gets eliminated here. Only one person works with F who doesn't work in production department. The department in which I works doesn't have the maximum number of persons. I doesn't work in production department. So, case 1 and case 2 get eliminated here. Hence, cases 1, 2a and 3 get eliminated.

	Production	Management	Marketing	Finance
Case 1	C	A,D	B,E,I	G,F
Case 2	G	C,F	B,E	A,D
Case 1b	A,D	C, F/I	B,E	G, F/I
Case 2a	G	A,D	C	B,E
Case 1a	B,E	A,D	C, F/I	G, F/I

Neither marketing nor management department has the maximum number of persons. I doesn't work with C whereas H doesn't work with G. So, case 1b gets eliminated.

	Production	Management	Marketing	Finance
Case 1b	A,D	C,F	B,E,H	G,I
Case 1a	B,E,H	A,D	C, F	G, I

The final arrangement is:

	Production	Management	Marketing	Finance
Case 1a	B,E,H	A,D	C, F	G, I

S56. Ans.(e)

Sol. B and H works in production department.

S57. Ans.(a)

Sol. F works in finance department.

S58. Ans.(e)

Sol. All works in production department except in option e.

S59. Ans.(c)

S60. Ans.(a)

Sol. D works in management department.

Solutions (61-64):

T @ 3 9 S 9 J L E U * K # 3 I O 9 \$ 4 Y Q % T @ 3 9 S I O 9 9 J L E U * K # 3 7 A 6 P & R

STEP I- T @ 3 9 S 9 J L E U * # 3 I O 9 \$ 4 Y Q % @ 3 9 S I O 9 9 J L E U * # 3 7 A 6 P & R K K T

STEP II- T @ 3 9 S 9 J L E U * 3 I O 9 \$ 4 Y Q % 3 9 S I O 9 9 J L E U * 3 7 A 6 P & # @ # R K K T

STEP III- T @ 3 S 9 J 9 L E U * I 3 O 9 \$ Y 4 Q % 3 S 9 I O 9 J 9 L E U * 3 A 7 P 6 & # @ # R K K T

S61. Ans.(b)

Sol. K, K, T

S62. Ans.(b)

Sol. second position from the left end - @, fifth position from the right end - #

S63. Ans.(e)

Sol. Three - @3, %3, *3

S64. Ans.(a)

Sol. L E U * I 3 O 9 \$ Y 4 Q % 3 S 9 I O 9 J 9 L E U * 3 A 7 P 6 & #

Solutions (65-69):

Only two boxes are placed above box L whose weight is a multiple of 7. There are two possible cases that Box L can either be of 28kg or of 35kg because it is given that no box is less than 24kg and more than 37kg. Box D is placed four places below box L. The number of boxes placed above D is same as the number of boxes placed below the box whose weight is 3kg less than box L.

Box	Weight (kg)	Box	Weight (kg)
Case 1		Case 2	
	25		32
L	28	L	35
D		D	

One box is placed between box L and box F. Weight of box F is a square number. So, the weight of box F is either 25kg or 36kg. Weight of box B is a prime number which is placed just above box F. So, box B will either be of 29kg or 31kg.

Box	Weight (kg)	Box	Weight (kg)
Case 1		Case 2	
	25		32
L	28	L	35
B	29/31	B	29/31
F	36	F	25/36
D		D	

Box T is placed above box G but both are not placed adjacent to each other. Weight of box G is equal to the average weight of box B and box F. Case 1 will eliminate here because the integer value of box B's weight is not possible. G's weight is not an even number. Hence, we got the definite weight of box B, F and G.

Box	Weight (kg)	Box	Weight (kg)
Case 1		Case 2	
T/	25	T/	32
T/		T/	
L	28	L	35
B	29/31	B	29
F	36	F	25
G		G	27
D		D	

Total weight of box T and box G is 63kg. So, the weight of T is 36kg. More than three boxes are placed below box C. Total weight of all the boxes is 215kg. So, the weight of one remaining box (which is D) is 31kg. So, the final arrangement is:

Box	Weight (kg)
C	32
T	36
L	35
B	29
F	25
G	27
D	31

S65. Ans.(d)

Sol. Box C is placed just above box T.

S66. Ans.(b)

Sol. The weight of box D which is placed just below box G is 31kg.

S67. Ans.(e)

Sol. No box is placed between T and C because they are placed adjacent to each other.

S68. Ans.(c)

Sol. Four boxes have more weight than B.

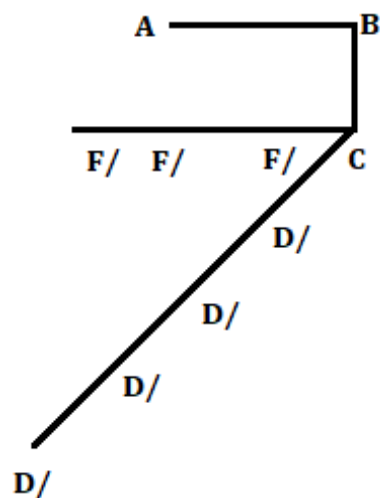
S69. Ans.(e)

Sol. Only option (e) is correct i.e., the weight of F is 25kg.

S70. Ans.(d)

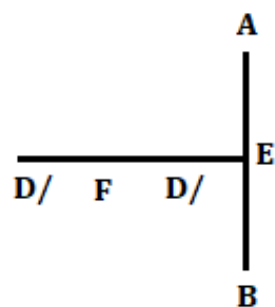
Sol. From I. A is in West of B. C is in North-east of D. C is in South of B. F is in West of C.

We can't get the answer only from I.



From II. A is in North of E. F is in West of E. E is in North of B. D is in West of E.

We can't get the answer only from II.



Even by combining the both we can't get the answer.

S71. Ans.(c)

Sol. Equal number of persons is shorter and taller than Daya. Arti is shorter than Arnav who is not the tallest. Jaya is just taller than Subhangi. Here we get to know that Jaya is the tallest among all.

From I. Jaya > Subhangi > Daya > Arnav > Arti

Two persons between Arti and Arnav. Subhangi is taller than Jaya and shorter than Daya. Jaya is not the shortest person. Here we get to know that Daya is the tallest among all.

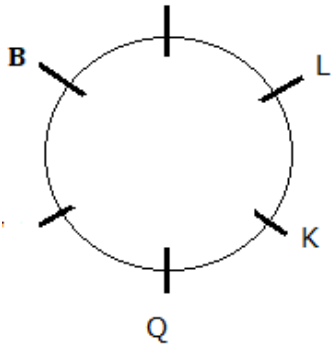
From II. Daya > Arti/Arnav > Subhangi > Jaya > Arnav/Arti

S72. Ans.(d)

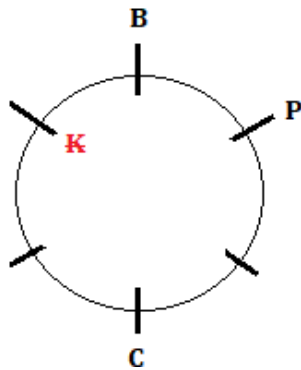
Sol. We can't get the answer even after combining the both I and II.

From I. L sits two places away from B. One person sits between B and

Q. K sits immediate right of Q but not sit near to B.



From II. P sits 2nd to the right of C. B sits 3rd to the left of C but not sit near to K.

**S73. Ans.(b)**

Sol. From I. One person buy thing between R and Q. At least two persons buy thing between S and R. We get 2 possible cases and insufficient information.

$R > _ > Q > S$ **Case 1**

$S > Q > _ > R$ **Case 2**

From II. Three persons buy thing between Q and T. R buy exactly between Q and T. S does not buy just before and just after T. We have two possible cases.

$T > _ > R > S > Q$ **Case 1**

$Q > S > R > _ > T$ **Case 2**

P buy a thing after S. From this condition Case 1 is ruled out now and we get the answer that No one buy a thing after T.

$Q > S > R > P > T$

S74. Ans.(b)

Sol. From I. There are as many boxes below the box A is same as above E. Box B is placed below the box D but not just below. From this condition we get many possibilities and this is the insufficient information so, we can't get the answer.

From II. Box C is placed two places above the box E. More than one box is placed between the box A and box B. We get 3 possible cases.

Case 1	Case 2	Case 3
Boxes	Boxes	Boxes
C	A/B	A/B
A/B	C	D
E	D	C
D	E	B/A
B/A	B/A	E

Box E and box D are not placed adjacent to each other. From this condition Case 1 and Case 2 are ruled out now.

Case 1	Case 2	Case 3
Boxes	Boxes	Boxes
C	A/B	A/B
A/B	C	D
E	D	C
D	E	B/A
B/A	B/A	E

We get that, Box C is placed just below the box D.

Boxes
A/B
D
C
B/A
E

S75. Ans.(c)

Sol. 7549823184

After interchanging the positions

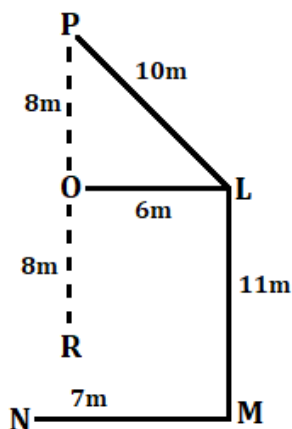
4813289457

Sum of digits at odd numbered position from right to left = $7+4+8+3+8=30$

Direction (126-128)

S76. Ans.(b)

Sol. According to the given information, we get that P is 8m north of O (according to Pythagoras theorem) also R would be 8m south of O because O lies exactly between P and R either horizontally or vertically. So, M lies in south-east with respect to R.

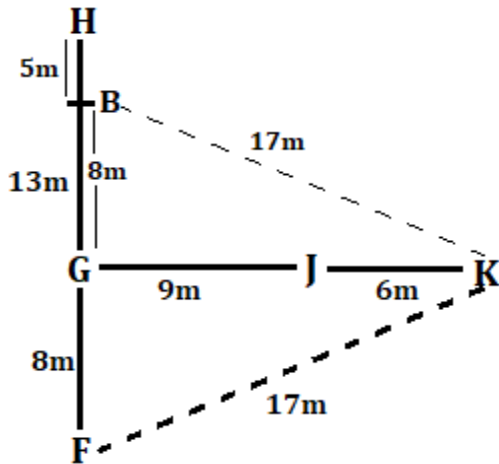


S77. Ans.(d)

Sol. The shortest distance between F and K is 17m (according to Pythagoras theorem). So, the distance between K and B will also be 17m and B lies 8m to the north of G.

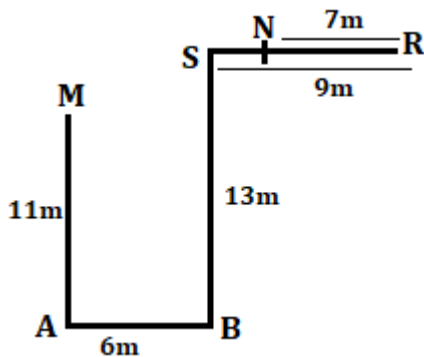
GH= 13m, GB= 8m so, BH= 13-8=5m

Hence, the distance between B and H will be 5m,



S78. Ans.(c)

Sol. According to the given expression. S lies to the west of N.



S79. Ans.(d)

Sol. Except (d), all four options follow the same logic which is given below:

D $\xrightarrow{+3}$ G $\xrightarrow{+6}$ M

I $\xrightarrow{+3}$ L $\xrightarrow{+6}$ R

L $\xrightarrow{+3}$ O $\xrightarrow{+6}$ U

~~C $\xrightarrow{+3}$ F $\xrightarrow{+5}$ K~~ $\Rightarrow$ C $\xrightarrow{+3}$ F $\xrightarrow{+6}$ L

P $\xrightarrow{+3}$ S $\xrightarrow{+6}$ Y

Solutions (130-134):**Common Explanation**

For Word Arrangement: The words are arranged in alphabetical order from the left end.

For Number Arrangement: The numbers are multiplied within the digit and arranged in descending order from the left end.

Input: 38 42 Keep Neat Hold 51 63 Lake Peace 17

Step I: Hold 38 42 Keep Neat 51 63 Lake Peace 17

Step II: Hold 38 Keep 63 42 Neat 51 Lake Peace 17

Step III: Hold 38 Keep 63 Lake 42 Neat 51 Peace 17

Step IV: Hold 38 Keep 63 Lake 42 Neat 17 51 Peace

Step V: Hold 38 Keep 63 Lake 42 Neat 17 Peace 51

S80. Ans.(c)

S81. Ans.(d)

S82. Ans.(c)

S83. Ans.(e)

S84. Ans.(b)

Solutions (135-139):

R lives on an even numbered floor to the south east of U. P lives just above U's flat. So, here we have three possible cases. Two floors gap between T and P. Y lives two floors above T and lives to the east of W.

Floors	Case 1			Case 2			Case 3		
	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3
4	P			P				P	
3	U	W	Y	U	W	Y	W	U	Y
2		R				R			R
1	T/	T/	T/	T/	T/	T/	T/	T/	T/

T lives in prime numbered flat and to the south east of X. X doesn't live in odd numbered flat. X lives in the south of U. So, case 1 gets eliminated here. S lives to the north west of Z. So, case 2 also gets eliminated here.

Floors	Case 1			Case 2			Case 3		
	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3	Flat 1	Flat 2	Flat 3
4	P			P			S/	P	
3	U	W	Y	U	W	Y	W	U	Y
2	X	R			X	R	S/	X	R
1		T/	T/			T		Z	T

S and O live on the same floor. V lives below Q. Thus the final arrangement is:

Floors			
	Flat 1	Flat 2	Flat 3
4	S	P	O
3	W	U	Y
2	Q	X	R
1	V	Z	T

S85. Ans.(d)

Sol. V lives in flat 1 on floor 1.

S86. Ans.(b)

Sol. Two floors gap is between O and T.

S87. Ans.(b)

Sol. Except R, all live in even numbered flat.

S88. Ans.(c)

Sol. Only statement II is true.

S89. Ans.(b)

Sol. Y lives in flat 3rd on floor 3.

S90. Ans.(d)

Sol. As owner himself decided to guide and inspect because he was not satisfied with their work, it may be quality issue, or the amount of work done by them. Total Charges is 2000 but whether mason charges more than two labours together or not, it is not clear. Their talkative nature is not discussed in the given statement.

S91. Ans.(a)

Sol. Total distance travel by boat = $d+d = 2d$

$$2d = x \times \left(8\frac{1}{3} - \frac{1}{3}\right)$$

$$2d = 8x$$

$$d = 4x$$

ATQ,

$$\frac{d}{x+y} + \frac{d}{x-y} = \frac{25}{3} \text{ (put } d = 4x)$$

$$\frac{8x^2}{x^2-y^2} = \frac{25}{3}$$

$$5y = x$$

$$\frac{18}{x+y} - \frac{6}{x-y} = \frac{30}{60} \text{ (put } 5y = x)$$

$$\text{we get } y = 3$$

$$\text{So, } x = 15 \text{ km/hr}$$

$$\text{Required time} = \frac{2d+90}{15} = \frac{210}{15} = 14 \text{ hours}$$

$$\text{For (i)} \quad \frac{d}{x-y} + 3y = \frac{4 \times 15}{15-3} + 3 \times 3 = 14 \text{ (correct)}$$

$$\text{For (ii)} \quad \frac{d}{x-y} - 3y = \frac{4 \times 15}{15-3} - 3 \times 3 = -4 \text{ (incorrect)}$$

$$\text{From (iii)} \quad \frac{180}{x+y} + 4 = \frac{180}{18} + 4 = 14 \text{ (correct)}$$

S92. Ans.(a)**Sol.** ATQ, Cost price: marked price = A: B

Selling price: marked price = (B+1) : (B+2)

Cost price: marked price: Selling price: marked = A(B+2): B(B+2): B(B+1)

$$\frac{B(B+2)}{B(B+1)} = \frac{120+30}{120} = \frac{5}{4}$$

For (i) $B = 3$ (B is a prime number)**For (ii)** Cost price = $150 \times \frac{5A}{15} = 50A$ Profit = $120 - 50A$ (if we put $A = 1$) $120 - 50 = 70$ (possible)**For (iii)** Cost price cannot be Rs.150 because marked price is Rs.150 and $A < B$.**S93. Ans.(b)****Sol.** Total water in the mixture = $\frac{25}{100} \times X = \frac{X}{4}$ Total milk in the mixture = $\frac{75}{100} \times X = \frac{3X}{4}$ **For (i)** Required percentage = $\frac{\left(X + \frac{X}{4}\right) - \left(\frac{X}{4} + \frac{X}{4}\right)}{X + \frac{X}{4}} = \frac{3}{5} \times 100 = 60\%$ (CORRECT)**For (ii)** new quantity of milk = $\frac{3X}{4} - \frac{9X}{20} = \frac{6X}{20} = \frac{3X}{10}$ Required ratio = $\frac{\frac{3X}{10}}{\frac{X}{4}} = \frac{3 \times 4}{10} = \frac{6}{5}$ (INCORRECT)**For (iii)** Milk in final mixture = $\frac{3X}{4} - \frac{X}{4} \times \frac{3}{4} = \frac{9X}{16}$ Required difference = $\frac{9X}{16} - \frac{X}{4} = \frac{5X}{16}$ (CORRECT)**S94. Ans.(b)****Sol.** $\frac{x^2}{3} - (11m)x + 90 = 0$..(i)

$$x^2 - 33mx + 270 = 0$$

Product of roots ($p \times q$) = 270 (ii)

$$p^2 + q^2 + 2pq = 549 + 540 = 1089$$

$$p+q = 33 \text{ (iii)}$$

from (ii) & (iii) we can say

Roots of equation are 18 and 15.

Put the 18 in equation (i)

We get $m = 1$ (so, (i) is correct)

Roots are 18 & 15 (so, (ii) is incorrect)

$$A - B = 18 - 15 = 3 \text{ (correct)}$$

S95. Ans.(d)**Sol.** CI at 10% for two years = $10 + 10 + \frac{10 \times 10}{100} = 21\%$

$$(x + 2000) \times 21\% = 525$$

$$x + 2000 = 2500$$

$$x = \text{Rs. } 500$$

New CI at 20% for two years = $20 + 20 + \frac{20 \times 20}{100} = 44\%$

$$m \times 500 \times 44\% = (y + 1) \times 880$$

$$m = 4(y + 1)$$

S96. Ans.(e)

Sol. Side of the cube = 14 m = diameter of the circle

Radius of the circle = 7 m

ATQ,

$$6 \left(\left(\frac{22}{7} \times 7 \times 7 \times x \right) + \left((14 \times 14) - \frac{22}{7} \times 7 \times 7 \right) \times (x - 5) \right) = 6972$$

$$154x + (196 - 154)(x - 5) = 1162$$

$$154x + 42(x - 5) = 1162$$

$$196x - 210 = 1162$$

$$196x = 1372$$

$$x = 7$$

S97. Ans.(a)

Sol. ATQ,

$$A \times B = 0$$

A can't be zero because AB is two-digit number.

So, B will be zero (unit digit).

A is the unit digit of the number whose unit digit of cube and square is same.

Only the square and cube of the number ending with 1, 5, 6 and 0 have same unit digit.

0 is eliminated because A can't be zero.

So, A can be 1, 6 and 5.

So, the two-digit number will be 10, 50 and 60.

S98. Ans.(e)

Sol. From statement 1-

$$\text{Profit ratio} = (X + 1000) \times 12 : (Y + 1000) \times 12 : 9 \times Z.$$

From statement 2-

$$9Zk = 12000 \text{ (k is proportionality constant)}$$

From statement 3 -

$$12((X+1000) - Y - 1000)) k = 15000 \text{ (k is proportionality constant)}$$

From the statement we can't determine the profit earned in the business.

S99. Ans.(a)

Sol. Let the age of A, B and C be a, b & c years respectively.

From statement 1-

$$a + b = 88 \quad (i)$$

From statement 2-

$$b = 34 + a \quad (ii)$$

$$b = 12 + c \quad (iii)$$

From statement 3 -

$$\frac{a}{c} = \frac{1x}{2x} \quad (iv)$$

From statement 1 and 2 we can find a and b.

From statement 2 and 3 we can find a and b.

S100. Ans.(e)

Sol. $x^2 + Px + 84 = 0$

Put $x = -21$

We get $P = 25$

$x^2 + 25x + 84 = 0$

$x^2 + 21x + 4x + 84 = 0$

$x(x+21) + 4(x+21) = 0$

$x = -4, -21$

required answer = $P - (-4) = 29$

Solutions (181–186):

Let the total number of students be $100x$

Students like A and B but not C = 16% of $100x = 16x$

Students like C and B but not A = 13% of $100x = 13x$

Students like A and C but not B = 4% of $100x = 4x$

ATQ,

$16x + 13x + 4x + 114 = 312$

$33x = 198$

$6 = x$

Total number of students only one sports = $100x - 312 = 288$

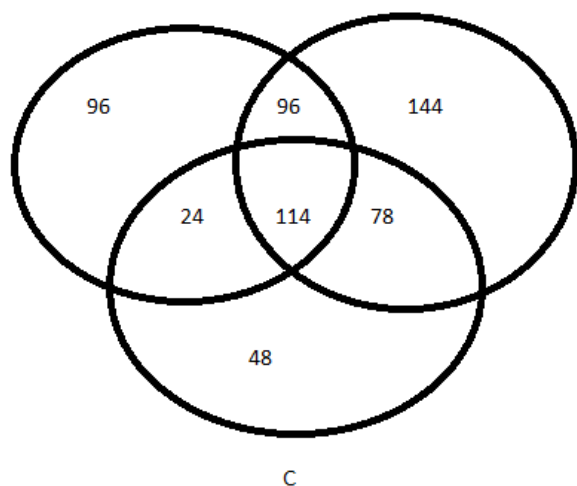
Students like only A = $288 \times \frac{2}{6} = 96$

Students like only B = $288 \times \frac{3}{6} = 144$

Students like only C = $288 \times \frac{1}{6} = 48$

A

B

**S101. Ans.(a)**

Sol. Required answer = 288

S102. Ans.(c)

Sol. Required difference = $288 - 114 = 174$

Sol. Total girls who like only two sports together = $\frac{96+24+78}{3} = 66$

Sol. Required value of $Y = 100x = 600$

Sol. Required percentage = $\frac{600-114}{600} \times 100 = 81\%$

Sol. We can't determine the number of boys and girls.

(a+58)	492	529	Y	639	712	749
	37			73	37	

87	448	(2a+15)=737	906	(103 + Z)	1076	1101
361	289	169				

$$Z = 924$$

Required answer = $x + y = 32 + 62 = 94$

S111. Ans.(c)

Sol. From 1- A and B works alternatively and complete the work in 16 days

A and B together can complete the work in 8 days

From 2- Ratio of time taken by A and B alone to complete the work is 1 : 2.

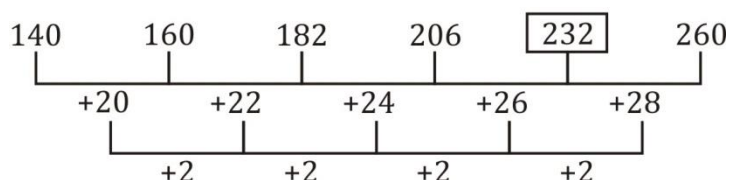
From 3- A's one day work = $\frac{1}{9} - \frac{1}{36} = \frac{4-1}{36} = \frac{3}{36} = \frac{1}{12}$

A can complete the work in 12 days alone

Either 1 alone or 2 and 3 together question can be solved

S112. Ans.(b)

Sol. Pattern of series

**S113. Ans.(d)**

Sol. I. $x^2 - 14x + 24 = 0$

$$x^2 - 12x - 2x + 24 = 0$$

$$x(x-12) - 2(x-12) = 0$$

$$x = 2, 12$$

$$\text{II. } y^2 + 8y + 15 = 0$$

$$y^2 + 5y + 3y + 15 = 0$$

$$y(y+5) + 3(y+5) = 0$$

$$y = -5, -3$$

$$\text{Required percentage} = \frac{12}{-5} \times 100 = -240\%$$

S114. Ans.(b)

$$\text{Sol. II. } y^2 + 21y + 68 = 0$$

$$y^2 + 17y + 4y + 68 = 0$$

$$y(y+17) + 4(y+17) = 0$$

$$y = -4, -17$$

So, -4 is the root of equation (I)

Put $x = -4$ in equation (I)

$$x^2 + 7x + C = 0$$

$$C = 12$$

Solutions (195 - 200):

Let the total number of bricks in C be x .

$$90\% \text{ of } x = 360$$

$$400 = x$$

$$\text{Number of baked bricks sold in C} = 30\% \text{ of } 360 = 108$$

$$\text{Number of unsold baked brick in C} = 360 - 108 = 252.$$

$$\text{Unbaked brick in C} = 400 - 360 = 40$$

Let total number of baked bricks in D be y.

$$50\% \text{ of } y = 350$$

$$700 = y$$

$$\text{Total number of bricks in D} = 700 \times \frac{100}{70} = 1000$$

$$\text{Unbaked brick in D} = 1000 - 700 = 300$$

S115. Ans.(a)

$$\text{Sol. Unsold baked brick by D} = 700 - 350 = 350$$

S116. Ans.(d)

$$\text{Sol. Total bricks in C and D} = 400 + 1000 = 1400$$

S117. Ans.(d)

$$\text{Sol. Required ratio} = 40 : 300 = 2:15$$

S118. Ans.(a)

$$\text{Sol. The total number of bricks in A} = 150\% \text{ of } 300 = 450$$

$$\text{Baked bricks by A} = 450 \times \frac{60}{100} = 270$$

$$\text{Number of baked bricks sold by A} = 20\% \text{ of } 270 = 54$$

S119. Ans.(a)

$$\text{Sol. Total number of bricks in B} = 100x$$

$$\text{Unbaked bricks in B} = 60\% \text{ of } 100x = 60x$$

$$\text{Baked bricks} = 40\% \text{ of } 100x = 40x$$

$$\text{sold baked bricks} = 10\% \text{ of } 40x = 4x$$

$$\text{Required percentage} = \frac{4x}{60x} \times 100 = 6.66\%$$

S120. Ans.(d)

$$\text{Sol. Total unbaked bricks of E} = 300$$

$$\text{Let the total bricks in E} = 100x$$

$$\text{Unbaked bricks} = 25\% \text{ of } 100x = 25x$$

$$25x = 300$$

$$12 = x$$

$$\text{Unsold baked bricks} = 75x \text{ of } 75\% = 675$$