

IBPS RRB PO Mains Previous Year Paper- 2023

Directions (1-5): Read the given information carefully and answer the questions based on it:

Eight persons are sitting in a row and all of them face north. They visit different number of countries. M sits 4th to the right of P. Neither P nor M sits at extreme ends of the row. The number of countries visited by the one who sits immediate left of M is the cube of least odd prime number. One person sits between P and K. The number of persons sit to the left of K is same as the number of persons sit to the right of the one who visits least number of countries among all. Two persons sit between N and the one who visits 5/3 countries of the one who sits third to the right of P. P neither sits adjacent to N nor visit odd number of countries. R sits immediate left of U. The number of countries visited by the person who sits at the left end of the row is seven times of the number of persons who sit between U and N. More than two persons sit between S and the one who visited number of countries are 650% of the total number of persons sit in the row. The total number of countries visited by both the immediate neighbors of S is equal to the square of largest single digit number. The number of countries visited by the person who sits just right of T is highest among all. The difference between the number of countries visited by the person who sits just right of U and the one who sits second to the right of K is 17. The number of countries visited by U is twice of the number of countries visited by S and five less than the number of countries visited by M.

Q1. How many persons sit to the left of T?

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

Q2. What are the total number of counties visited by the persons who sit between P and N?

- (a) 151
- (b) 143
- (c) 149
- (d) 153
- (e) None of the above

Q3. What is the position of the one who visits 35 countries with respect to the one who visits 24 countries?

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

Q4. Who among the following visits third highest number of countries?

- (a) The one who sits just right of M
- (b) The one who sits second to the left of S
- (c) R
- (d) The one who sits just left of K
- (e) P



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Prelims + Mains + Interview*



Starts: 15 Jun | 11 am to 3:30 pm

Q5. How many countries are visited by the one who sits third from right end of the row?

- (a) 36
- (b) 24
- (c) 53
- (d) 27
- (e) None of the above

Directions (6-8): 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 follows from the given statements. Give answer:

Q6. Statements:

All face is song.
Some song is list.
Only a few list is super.
Only a few face is album.

Conclusions:

- I. Some song can never be super.
 - II. All list can be face.
 - III. All song being album is a possibility.
- (a) Only II follows
 - (b) Only II and III follow
 - (c) Only I follows
 - (d) All I, II and III follows
 - (e) Only I and II follows

Q7. Statements:

Some site is not security.
Only a few security is supply.
Only a few site is content.
All security is mobile.
Only content is load.

Conclusions:

- I. Some content can never be mobile.
 - II. Some supply is not site.
 - III. All content can be security.
 - IV. No supply is load.
- (a) Only I and II follow
 - (b) Only II, III and IV follow
 - (c) Only I follows
 - (d) Only I and IV follow
 - (e) Only II and IV follow

Q8. Statements:

Only break is group.
Only a few above is heaven.
Some heaven is toast.
All heaven is break.

Conclusions:

- I. Some heaven are group.
- II. Some group is not above.
- III. No above being toast is a possibility.

IV. All break can never be toast.

- (a) Only II and IV follow
- (b) Only I and III follow
- (c) Only II, III and IV follow
- (d) Only II and III follow
- (e) Only I, II and III follow

Directions (9-13): Study the information carefully and answer the questions given below.

Eight persons A, B, C, D, E, F, G and H take different subjects (but not necessarily in the same order) either on 7 or 28 of four different months viz. January, February, March and April in the same year.

E takes Science in the month having less than 31 days but not on odd date. G takes subject two persons before E. Three persons between G and the one who takes Psychology. D takes subject just after the one who takes Sociology but not in the same month. There are as many persons take subject before A as after the one who takes Music. A takes his subject just after the one who takes Business studies in the month having 30 days. H takes his subject just before the one who takes English. C takes subject just after B. The one who takes Mathematics does not take his subject before the one who takes Radiology.

Q9. In which month does G take his subject?

- (a) January
- (b) February
- (c) March
- (d) April
- (e) Cannot be determined

Q10. Who takes Psychology?

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

Q11. What subject does D take?

- (a) Business Studies
- (b) Radiology
- (c) Sociology
- (d) Mathematics
- (e) Music

Q12. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?

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

Q13. How many persons take subjects between F and the one who takes Business Studies?

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

Directions (14-14): Maharashtra home minister Anil Deshmukh resigned on Monday, hours after the Bombay high court ordered a federal probe by CBI into allegations of extortion against him to extort Rs 100 crore from bars and restaurants. After resigning, Deshmukh took a flight to Delhi where he met Congress leader and prominent lawyer Abhishek Singhvi. He was also likely to meet Kapil Sibal, another top legal counsel, and discuss the merits of approaching the Supreme Court against the HC decision.

Q14. Which of the following can be concluded from the issue stated in the above statement?

- (a) New Home minister will be of congress party and in reward Mr Kapil sibal of congress will fight case for Mr. Deshmukh.
- (b) Ex Home Minister of Maharashtra has asked to collect Rs 100 crore from bar and restaurants.
- (c) After judgement of state High Court, accused can approach Supreme Court.
- (d) Both (b) and (c)
- (e) Both (a) and (b)

Directions (15-17): In the following questions, the symbols @, #, %, \$ and © are used with the following meaning as illustrated below-

'P#Q' means 'P is neither greater than nor equal to Q'

'P©Q' means 'P is neither equal to nor smaller than Q'

'P%Q' means 'P is neither smaller than nor greater than Q'

'P\$Q' means 'P is not smaller than Q'

'P@Q' means 'P is not greater than Q'

Now in each of the following questions assuming the given conclusion to be true, find which of the given statements in option (a), (b), (c) and (d) given below them is/are definitely true and give your answer accordingly. Else mark option (e) as your answer.

Q15. Conclusions:

I. A @ B

II. X \$ Y

- (a) Statements: P © R @ A @ Q \$ X © B \$ C % Y % D @ E
- (b) Statements: X @ P \$ Q © R # Y % A @ D @ C % B \$ E
- (c) Statements: E % R \$ Q © X % C P \$ B % Y % D \$ A
- (d) Statements: Q % B \$ P © X @ R # A % Y \$ C @ D © E
- (e) None of these

Q16. Conclusions:

I. M \$ N

II. P @ Q

- (a) Statements: R @ V © M \$ S % P \$ N @ T © U \$ Q % W
- (b) Statements: R \$ V © M % S % P \$ N @ T © U \$ Q % W
- (c) Statements: R # V © M \$ S % P # N \$ T © U \$ Q % W
- (d) Statements: V © M \$ S % P % N % T % U @ Q © W
- (e) None of these

Q17. Conclusions:

I. D # E

II. F © G

- (a) Statements: G @ D @ I % E © J \$ K % L % F @ H # M
- (b) Statements: F \$ E % H \$ I © J % K @ D # G @ L # M
- (c) Statements: D % E @ F # G \$ H © I % J \$ K # L © M
- (d) Statements: D @ J @ K \$ L © E % F # G \$ H % I © M
- (e) None of these

Q18. Which of the following can be hypothesized from the above statement?

- (I) Population of world need to control to eradicate the issue of hunger.
 - (II) India is top producer of wheat and rice in world.
 - (III) One of the major reasons for illness of many people in world are due to poor diet.
- (a) Only II and III
 - (b) Only I and II
 - (c) Only II
 - (d) Only III
 - (e) None of them

Q19. Which of the following abrogates the issue stated in given statement?

- (I) Chief of Food & Agriculture organization of United Nations has given a statement that hunger rate is increasing day by day.
 - (II) Farming of vegetables & fruits can aid in food production of India.
 - (III) In a recent survey by a medical association, it is found that most of the ill people in world are affected by consumption of Alcohol & tobacco.
- (a) Only II
 - (b) Only I and III
 - (c) Only III
 - (d) Only II and III
 - (e) None of them

Directions (20-24): A word and number arrangement machine when given an input line of words and numbers, rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement:

Input: globe 78 request 34 37 version25 56 explode read 31 view

Step I: 50 globe 78 request 34 37 version 56 read 31viewexplode

Step II: 62 50 globe 78 request 34 37 version 56 read explode view

Step III: 17 62 50 globe 78 request 37 56 read explode view version

Step IV: 74 17 62 50 globe 78 56 read explode view version request

Step V: 28 74 17 62 50 globe 78 explode view version request read

Step VI: 39 28 74 17 62 50 explode view version request read globe

Step VI is the last step of the rearrangement. Based on the above steps, rearrange the following input and give answer.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Q20. Which of the following element is 7th the left of 'region' in step V?

- (a) 14
- (b) 86
- (c) 70
- (d) 22
- (e) None of the above

Q21. How many elements are in between '43' and 'browser' in step III?

- (a) One
- (b) Four
- (c) Three
- (d) Five
- (e) None of the above

Q22. What is the position of 'galaxy' with respect to '28' in last step?

- (a) 4th to the right
- (b) 3rd to the right
- (c) 5th to the right
- (d) 6th to the right
- (e) 2nd to the right

Q23. Which of the following element is 6th to the right of 4th element from the left end in step II?

- (a) galaxy
- (b) browser
- (c) 56
- (d) update
- (e) detail

Q24. Which of the following sequence is correct according to step IV?

- (a) 14 22 galaxy 70 browser update
- (b) 22 60 region game 56 galaxy
- (c) 56 game galaxy browser43 60
- (d) 14 22 galaxy browser update detail
- (e) 86 70 14 22 60 game galaxy

Directions (25-29): Study the following information carefully and answer the given questions.

Eight persons sit around a square table such that four persons sit at the corner and the remaining four persons sit at the middle of the side. The persons sit at the corner face towards the center and the persons sit at the middle of the side face away from the center. Each of them likes different types of papers- Cotton, Cardstock, Bond, Glossy, Tracing, Vellum, Matte and Tissue but not necessarily in the same order.

B sits immediate left of the one who likes tissue paper. As many persons sit between B and C as between A and the one who likes cotton paper. A sits second to the left of C. Only two persons sit between A and the one who likes tissue paper. E doesn't sit adjacent to F. The one who likes tracing paper sits immediate right of the one who likes cotton paper. D faces the one who likes glossy paper. G sits second to the right of D. The one who likes Vellum paper sits two persons away from H. The one who likes matte paper sits opposite to E. H and F face the same direction. B doesn't like bond paper.

Q25. Who among the following likes Bond paper?

- (a) D
- (b) F
- (c) The one who sits immediate left of H
- (d) The one who sits opposite to C
- (e) Can't be determined

Q26. Four of the following five are alike in a certain way and hence form a group. Who among the following does not belong to that group?

- (a) The one who likes cotton paper
- (b) The one who likes matte paper
- (c) The one who likes cardstock paper
- (d) The one who likes glossy paper
- (e) The one who likes bond paper

Q27. How many persons sit between F and the one who sits opposite to C when counts from the left of F?

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

Q28. If all the persons sit in alphabetical order starts from A in anticlockwise direction the who among the following likes Matte paper?

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

Q29. Which among the following statement(s) is/are true?

- I. B likes cardstock paper
- II. D and H are the neighbours of the one who likes cotton paper
- III. H faces the one who sits immediate left of B

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

Directions (30-32): Study the following information carefully and answer the given questions.

A person starts walking from point I in the east direction after walking 12m he reaches at point B then he takes a left turn and walks 8m to reach at point E. From point E he takes a left turn and walks 6m to reach at point D. From point D he again takes left turn and walks 15m to reach at point C. Now from point C he takes two consecutive right turn and walks 4m and 12m to reach at point F and point H respectively. Now he takes left turn and walks 9m to reach at point G. From there he takes left turn and walks 10m to reach at point J. From point J he takes left turn and walks 11m to reach at point L. From there he takes a left turn and reaches at point K which is to the east of point I.

Q30. Four of the following five are alike in a certain way and hence form a group. Which among the following does not belong to that group?

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

Q31. What is the shortest distance between point L and point B?

- (a) $\sqrt{75}$ m
- (b) $\sqrt{89}$ m
- (c) 89m
- (d) 120m
- (e) 164m

Q32. How many points are in the south west of point D?

- (a) Six
- (b) Five
- (c) Seven
- (d) Eight
- (e) Four

Q33. In a family, D is child of H who is mother-in-law of A. L is parent of A's wife. G is the nephew of H's only brother. B is the child of G's only sibling. B and J are of same gender. Find how is B related to L?

- (a) Granddaughter
- (b) Brother-in-law
- (c) Grandson
- (d) Niece
- (e) Son-in-law

Directions (34-35): Italian super - luxury sports car manufacturer Lamborghini has spread its wings in India. And it, has just opened a dealership in Bengaluru, the IT capital of the country. At a price tag of over Rs. 1 Crore, in addition high import duty barriers. Who will buy a Lamborghini car? Rather, what gives the Italian car maker the confidence to not only drive into India but also expand its presence? If super - luxury brand like Lamborghini is sensing an unfolding big opportunity in a New India, other traditional global luxury car makers have turned very ambitious with new launches.

Q34. Which of the following are not in line with the given statement?

- (a) Mercedes and Audi are also planning to launch their premium cars after Lamborghini.
- (b) In recent survey it has been found that 65% population of India are youth.
- (c) Automobile sector has fallen 8% as compared to previous years.
- (d) Both (a) and (c)
- (e) Both (b) and (c)

Q35. Does Lamborghini company will get success in India?

- (I) Yes, top businessmen of country like and demand sports car.
 - (II) No, 70% population of country belongs to rural areas and they have to work hard for their bread and butter.
- which of the arguments is strong or weak? Give answer as:
- (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 (36-40): Study the following information carefully and answer the given questions.

Eight persons live in three different cities- X, Y and Z. Each of them likes different sports- Cricket, Golf, Tennis, Hockey, Chess, Football, Basketball and Archery but not in the same order. At least two but not more than three persons live in the same city.

G doesn't like football. The one who likes tennis and the one who likes football live in the same city. F lives only with the one who likes chess. The one who likes tennis doesn't live in city X. Even number of persons lives with B. B and the one who likes football live in different cities. C lives in the same city with the one who likes archery. The one who likes hockey and the one who likes cricket live in the same city. C neither likes chess nor football. B and the one who likes archery live in different cities. The one who likes hockey lives with H and E. The one who likes golf neither lives in city X nor lives with E. A lives neither with D nor with G who doesn't live in city Y. E doesn't likes basketball.

Q36. Who among the following likes Cricket?

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

Q37. Which among the following statement(s) is/are true?

- I. Only two persons live in city Y
 - II. Equal number of persons lives in city Z and city X
 - III. C likes football
- (a) Both I and II
 - (b) Both II and III
 - (c) Only II
 - (d) Only III
 - (e) All I, II and III

Q38. G likes which among the following sports?

- (a) Hockey
- (b) Cricket
- (c) Archery
- (d) Chess
- (e) Basketball

Q39. Which among the following pair of persons live in the same city?

- (a) The one who likes cricket, A
- (b) The one who likes chess, the one who likes football
- (c) G, the one who likes basketball
- (d) The one who likes golf, A
- (e) None of these

Q40. If J and K live in the same city with the one who likes tennis then what is the product of number of persons live in city Y and the number of persons live in city Z?

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

Directions (41-45): Read the following passage and answer the given questions.

In recent years, the innovative marketing strategy of Electric Motors Inc. (EMI), an emerging electric automobile company, has become a compelling case study in the automotive industry. EMI's strategy revolves around sustainability, technological prowess, and customer engagement.

EMI's market research identified a growing consumer demand for environmentally friendly vehicles. In response, the company positioned itself as a pioneer in electric vehicle (EV) technology. Their product line emphasizes cutting-edge electric propulsion systems and sustainable manufacturing practices, aligning with the global shift toward eco-conscious transportation solutions.

Digital marketing plays a pivotal role in EMI's strategy. The company employs a robust online presence, leveraging social media platforms to disseminate engaging content about their EVs, sustainability initiatives, and technological advancements. This approach not only enhances brand visibility but also **fosters** a community of environmentally conscious consumers.

EMI's collaboration with influencers and environmental advocates has further amplified its reach. High-profile partnerships have enabled the company to showcase its commitment to sustainability and gain credibility among diverse consumer segments.

Moreover, EMI's customer-centric approach involves educational campaigns on the benefits of electric vehicles, addressing common misconceptions, and providing transparent information about the environmental impact of their products. Test-drive events and interactive online experiences offer potential customers firsthand exposure to the brand, contributing to increased interest and conversion rates.

In conclusion, Electric Motors Inc.'s marketing strategy, centered around sustainability, technology, and customer engagement, illustrates how a forward-thinking approach can establish a niche in the competitive automotive industry. By aligning with consumer values and utilizing digital platforms for effective communication, EMI has successfully positioned itself as a leading player in the electric automobile market.

Q41. What did EMI's market research that led the company to make strategic changes?

- (a) The company established itself as a leader in the field of electric vehicle technology.
- (b) Employing digital marketing has become a contemporary approach for promoting and establishing a product.
- (c) Discovering an increasing demand from consumers for environmentally friendly vehicles.
- (d) The company's commitment to investing in EV technology aligns with its mission to raise awareness about sustainability.
- (e) EMI's marketing strategy should prioritize digital media and a customer-centric approach to effectively promote their products.

Q42. What benefits might EMI derive from having a robust online presence in the context of their sustainability initiatives?

- (I) EMI can expand its market reach, targeting a diverse audience interested in sustainable and eco-friendly products
 - (II) Enhances EMI's brand visibility which can contribute to a positive brand image
 - (III) Can create a space for like-minded individuals to engage, share ideas, and support the company's sustainability goals.
- (a) Only (I)
 - (b) Both (I) and (II)
 - (c) Only (III)
 - (d) Both (II) and (III)
 - (e) All (I), (II) and (III)

Q43. What role do test-drive events and interactive online experiences play in EMI's strategy to engage potential customers?

- (a) Fosters engagement by allowing customers to explore features and benefits of electric vehicles.
- (b) Contributes to increased conversion rates as customers make informed decisions based on their experiences.
- (c) While participants may attend for a specific product, test-drive events provide opportunities to cross-sell other products.
- (d) Both (a) and (b)
- (e) Both (b) and (c)

Q44. According to passage, choose which of the following statement is FALSE?

- (a) EMI's marketing strategy revolves around sustainability, technological prowess, and customer engagement
- (b) Digital marketing plays a pivotal role in EMI's strategy, enhancing brand visibility and fostering a community of environmentally conscious consumers.
- (c) EMI collaborates with influencers and environmental advocates to amplify its reach
- (d) Electric Motors Inc. (EMI) focuses on educational campaigns to distract diverse consumer
- (e) All are true

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Q45. Choose the most appropriate word which has the similar meaning as “Fosters”.

- (a) challenge
- (b) cultivate
- (c) animate
- (d) instigate
- (e) incite

Directions (46-50): Read the following passage and answer the following questions.

During the Covid-19 pandemic, businesses faced significant challenges, with two major issues taking the forefront: disruptions in the supply chain and rising inflation, a concern that heightened in the spring of 2021.

The pandemic, causing isolation measures, led to unpredictable shifts in demand for goods and services, impacting global supply chains. Ports clogged up, truck driver shortages worsened, and companies struggled to secure raw materials, particularly affecting small businesses across the United States.

As inflation rose due to increased interest rates, it remained a persistent issue. The U.S. Census Bureau tracked its impact on businesses through two surveys: the Small Business Pulse Survey (SBPS) and the more recent Business Trends and Outlook Survey (BTOS). These surveys provided real-time insights into the challenges businesses faced. The SBPS, published weekly, revealed that by May 2021, 29.4% of small businesses experienced domestic supplier delays, rising to 35.8% by May 2021. Foreign supplier delays also increased to 19.2% over the course of the survey. The BTOS, starting in July 2022, continued tracking supply chain issues. In the initial phase, 36.1% of small businesses reported domestic supplier delays and 13% faced foreign supplier delays. However, the most recent data from July 2023 showed significant improvements. Domestic supplier delays dropped to 14.5%, and foreign supplier delays decreased to 4.3%.

These surveys not only _____ national indicators of supply chain pressures but also provided more timely information, showcasing the evolving challenges businesses encountered during the pandemic.

Q46. In what ways did small businesses in the United States particularly feel the strain during the pandemic, according to the passage?

- (a) Small businesses faced operational disruptions due to challenges in the supply chain.
- (b) The increased cost of operations caused by inflation disrupted the management of the supply chain. (c) Small businesses experienced delays in delivering essential goods.
- (d) The infrastructure and smooth operation were impacted by a high demand for truck drivers.
- (e) Obtaining real-time information and maintaining logistics proved challenging during the pandemic for small businesses.

Q47. According to the passage, which of the following statement is TRUE?

- (a) Small businesses in the United States were unaffected by the disruptions in the supply chain during the Covid-19 pandemic.
- (b) The U.S. Census Bureau only tracked the impact of inflation on large businesses.
- (c) The Small Business Pulse Survey (SBPS) was initiated in July 2022 to track supply chain issues.
- (d) The SBPS, published weekly, tracked the impact of inflation on businesses through real-time insights.
- (e) The Business Trends and Outlook Survey (BTOS) showed a decrease in domestic and foreign supplier delays from the initial phase in July 2022 to the most recent data in July 2023.

Q48. According to the passage, which of the following statement is TRUE?

- (a) The BTOS started tracking supply chain issues in May 2021.
- (b) Inflation impacted the logistical operations during pandemic.
- (c) The SBPS revealed that foreign supplier delays increased to 29.4% by May 2021.
- (d) The disruptions in the supply chain during the pandemic primarily affected large businesses rather than small businesses.
- (e) All are false

Q49. Choose the most suitable word to fill in the given blank.

- (a) forged
- (b) presumed
- (c) calculate
- (d) mirrored
- (e) pressurized

Q50. What is the tone of the passage?

- (a) analytical
- (b) enthusiastic
- (c) judgemental
- (d) inquisitive
- (e) didactic

Directions (51-56): In the following passage there are words highlighted which have been numbered. These numbers are printed below the passage and against each, five options are given. In four options, one word is suggested in each option. Find out the appropriate word which replaces the highlighted word appropriately. If the word given in the passage is correct, choose option (No replacement required) as the correct choice.

Q51. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) captured
- (b) volunteered
- (c) altered
- (d) realised
- (e) No replacement required

Q52. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) emerging
- (b) challenging
- (c) risking
- (d) maintaining
- (e) No replacement required

Q53. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) invitation
- (b) practice
- (c) division
- (d) generation
- (e) No replacement required

Q54. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) intellectual
- (b) seamless
- (c) diligent
- (d) impediment
- (e) No replacement required

Q55. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) restrict
- (b) concern
- (c) ignore
- (d) prioritize
- (e) No replacement required

Q56. The post-pandemic era has significantly **enhance (51)** work culture, with remote work **degrading (52)** as a lasting trend. The traditional 9-to-5 office routine has given way to a more flexible approach, emphasizing productivity over physical presence. Virtual **collaboration (53)** tools have become indispensable, enabling **coherent (54)** communication and collaboration. Employers now **criticize (55)** employee well-being, recognizing the importance of a balanced work-life equation. As we navigate this new normal, the hybrid model that combines remote and in-person work is emblematic of a more adaptable and resilient work culture, marking a lasting **maintenance (56)** in how we approach work in the modern age.

- (a) transformation
- (b) event
- (c) term
- (d) affect
- (e) No replacement required

Directions (57-61): In the given question, a sentence is presented in segments. One part is highlighted, free from grammatical errors. From the remaining parts, identify those that contain grammatical errors. If the sentence is correct, select "No error" as your answer choice.

Q57. Neither the teacher / or the students (A) / in the advanced physics class (B) /was satisfied with the (C) / content of the textbook. (D)

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

Q58. Not only the storm did (A)/**disrupt the power supply**, /but it also caused significant (B)/damaged to the infrastructure (C) / in the coastal region. (D)

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

Q59. During her vacation, she hope (A)/ to explore charming local markets, (B)/ indulge in delicious regional cuisines, (C)/ and immerse her in the (D)/ **rich cultural traditions of the area**.

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

Q60. **After the disagreement**,/ they each took a moment/ to calm themselves /before discussing / the issue further.

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

Q61. Scarcely she had entered the room (A)/ when the unexpected applause erupted, (B)/ surprising her(C) / **as the audience acknowledged her** /a remarkable performance. (D)

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

Directions (62-62): The given sentence is divided in five parts. Rearrange the parts in correct sequence to make sentence grammatically correct and contextually meaningful.

Q62. (A) the concept of artificial intelligence
(B) privacy and data security
(C) life raises important ethical
(D) becoming ubiquitous in everyday
(E) considerations regarding

- (a) DCABE
- (b) BCEDA
- (c) ADCEB
- (d) EADBC
- (e) CBADE

Directions (63-67): In the following questions SIX sentences are given. Further, these sentences may or may not form a contextually meaningful sequence. You have to rearrange these sentences to make a contextually meaningful paragraph. Later, answer the follow-up questions.

(A) In summary, studying how people shop and use products is vital for businesses to make smart marketing plans and keep customers loyal.

(B) Successful businesses leverage insights into consumer behaviour to create targeted marketing strategies, build brand loyalty, and adapt to evolving market dynamics.

(C) Understanding this study of individuals' actions is crucial for businesses aiming to meet customer needs effectively.

(D) Consumer behaviour refers to the study of individuals' actions when acquiring, using, and disposing of goods and services.

(E) It encompasses various factors, such as cultural influences, social interactions, and psychological motivations.

(F) Marketers analyse buying patterns, preferences, and decision-making processes to tailor products and campaigns.

Q63. Which of the following should be the THIRD sentence after rearrangement?

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

Q64. Which of the following should be the FIRST sentence after rearrangement?

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

Q65. Which of the following should be the SIXTH sentence after rearrangement?

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

Q66. Which of the following should be the FOURTH sentence after rearrangement?

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

Q67. Which of the following should be the PENULTIMATE sentence after rearrangement?

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

Directions (68-72): In the provided questions, a sentence contains a blank. Select the most suitable phrase to complete the sentence, ensuring grammatical correctness and contextual relevance.

Q68. The book on the shelf, _____, belongs to a friend who has a passion for collecting rare editions.

- (a) besides several others
- (b) along with several others
- (c) over many other
- (d) through others
- (e) and the much others

Q69. The committee, composed of experts in their fields, _____ every month to discuss and make decisions.

- (a) are going to meet
- (b) is scheduled to meet
- (c) is witnessing to meet
- (d) is scheduling to see
- (e) are scheduling to meet

Q70. Each of the students _____ his or her homework assignment before the deadline.

- (a) require to submit
- (b) is required to be submitted
- (c) are required to submit
- (d) is required to submit
- (e) requires to submits

Q71. The company's decision to relocate its headquarters _____ debate among employees, with opinions varying widely.

- (a) is a subject of much
- (b) are a subject of much
- (c) is the subject of more
- (d) is a subject at many
- (e) is a subject of several

Q72. The concept of time, as explored in the novel, _____ their perspectives and reconsider the value of each moment.

- (a) challenge readers to prospect
- (b) challenges reader to be rethought
- (c) introspect readers to value
- (d) insist readers to read
- (e) challenges readers to rethink

Directions (73-77): In the provided questions, a sentence is presented with four highlighted words. Choose the most appropriate set of words to replace the highlighted words, ensuring both grammatical correctness and contextual relevance.

Q73. In the **presentation of well-being, each mindful **trick** became a step on the path to **reliability** , weaving a tapestry of good **steps** and self-care.**

- (a) placid, options, caution, relation
- (b) junction, function, feasibility, rescue
- (c) organisation, modesty, walk, honesty
- (d) pursuit, choice, vitality, habit
- (e) No replacement required

Q74. In the **subset** of technology, **imitation** dances with possibility, **rescuing** a future where artificial intelligence and human **mentality** converge.

- (a) kingdom, growth, moulding, relativity
- (b) adversity, upgradation, revamping, transaction
- (c) realm, innovation, shaping, creativity
- (d) outlet, imagination, connecting, practical
- (e) No replacement required

Q75. In the microscope's gaze, tiny **resources** unveiled the **detail** dance of life, a symphony **hidden** by the unseen forces of biology.

- (a) Under, organisms, intricate, conducted
- (b) On, creature, wide, collaborated
- (c) Beneath, mammals, fine, co-related
- (d) At, animals, optimal, merged
- (e) No replacement required

Q76. Against the canvas of **adversity**, hope painted **resilient** strokes, turning **despair** into a masterpiece of unwavering **optimism** and strength.

- (a) fulfilment, degraded, generosity, ridicule
- (b) positivity, swift, sadness, misery
- (c) growth, untidy, beauty, advantage
- (d) hypocrisy, ignorant, virtue, destruction
- (e) No replacement required

Q77. The **point** of family gatherings, filled with **problems** and shared stories, **explored** a tapestry of **stories** that time could never unravel.

- (a) hindrance, despaired, transcribed, collection
- (b) brevity, happiness, forms, elation
- (c) problems, melancholy, narrates, delight
- (d) warmth, laughter, created, memories
- (e) No replacement required

Directions (78-80): In the provided questions, an idiom is presented, followed by three statements. Identify the statements that correctly use the given idiom.

Q78. ON THE RUN

- (A) The journalist filed the report while **on the run**, capturing the essence of the breaking news story.
- (B) Parents often find themselves doing chores **on the run**, multitasking to keep up with the demands of family life.
- (C) Instead of crying over spilled milk, she quickly cleaned up the mess and **on the run**.

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

Q79. UNDER THE WEATHER

- (A) Feeling **under the weather**, John decided to stay home and get some rest instead of going to the party.
- (B) Unable to contain the excitement, she finally decided to be **under the weather** about the surprise party.
- (C) Faced with a challenging decision, he had to be **under the weather** and confront the issue head-on.

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

Q80. PIECE OF CAKE

- (A) As the deadline approached, the dedicated student had a **piece of cake** to complete the research paper.
(B) Completing the puzzle turned out to be a **piece of cake** for the experienced crossword enthusiast.
(C) Taking the exam was a **piece of cake** for the well-prepared student who had studied diligently all semester.
- (a) Only (A)
(b) Both (B) and (C)
(c) Only (C)
(d) Both (A) and (B)
(e) Only (B)

Directions (81-85): The information given about three shops A, B and C sold tables and chairs. Read the given information carefully and answer the following questions.

Shop A: Number of chairs sold by A is 25% more than that of tables. Cost of the table is Rs 240 and the cost of the pair of table & chair is Rs 390.

Shop B: Ratio of tables sold by A to B is 4: 5 and cost of a chair and a pair of table and chair is Rs 200 and Rs 500 respectively. Total number of chairs sold by A is 220.

Shop C: Total tables sold is 40 less than the chairs. Total table sold by all the shops are 500. Cost of each table is 25% less than the cost of table of shop B and cost of pair of table and chair is Rs 300. Ratio of total chair sold by B to total chairs sold by C is 1:2.

Q81. Shop B sold 50% of the chair at profit of 10% and 5 of the table at 20% loss and remaining tables and chairs are sold at no profit no loss. Find the profit/loss he gets (in Rs)

- (a) 420
(b) 200
(c) 300
(d) 100
(e) 155

Q82. Find the ratio of total table sold by A and C together to total chairs sold by A.

- (a) 15:11
(b) 2:1
(c) 14:11
(d) 10:9
(e) 15:53

Q83. If shop A, marked up all the chairs at 20% above cost price and sold 10% of the chairs at 12.5% discount and remaining at the marked price, then find the total selling price of the chairs which are sold by giving discount (in Rs).

- (a) 3150
(b) 3200
(c) 3500
(d) 3465
(e) 3555

Q84. Shops C sold x chairs at profit of 20% and (x - 10) table at a profit of 40%. The total profit generated from selling these items is Rs 675. Find the value of x.

- (a) 12
(b) 20
(c) 30
(d) 15
(e) 10

Q85. If number of chairs and tables sold by shop A are interchanged, then find the chairs sold by A is what percentage of total tables sold by B.

- (a) 80%
- (b) 90%
- (c) 105%
- (d) 50%
- (e) 55%

Q86. Out of his total income which is equal to Rs. 100y, a person spent $x\%$ of rent and $(x + 10)\%$ on travel. From the remaining, he invests 40% on a policy and from the remaining he saved only 50%. If his savings is Rs10500, then find the value of the option/options is/are correct.

- (i) $x = 10, y = 500$
- (ii) $x = 20, y = 700$
- (iii) $x = 15, y = 700$
- (a) only (iii)
- (b) only (i)
- (c) both (i) and (iii)
- (d) both (i) and (ii)
- (e) none of these

Q87. A boat takes total 78 hours to cover 180 km downstream and 120 km upstream. If it takes 22.8 hour more to travel 60 km upstream than to travel 72 km downstream, then find the upstream distance (km) travelled by boat in 4 hours.

- (a) 8
- (b) 20
- (c) 30
- (d) 15
- (e) 10

Q88. Container A has 240 L of milk and water in the ratio of 8: 7. 30 L of mixture is taken out and replaced with same quantity of water and again 60 L of mixture is taken out and replaced with same quantity of water. Now container A and B which has 260 L of milk and water in the ratio of 8: 5 are mixed. Find the quantity of milk in the resultant mixture (in liters).

- (a) 212
- (b) 220
- (c) 230
- (d) 244
- (e) 210

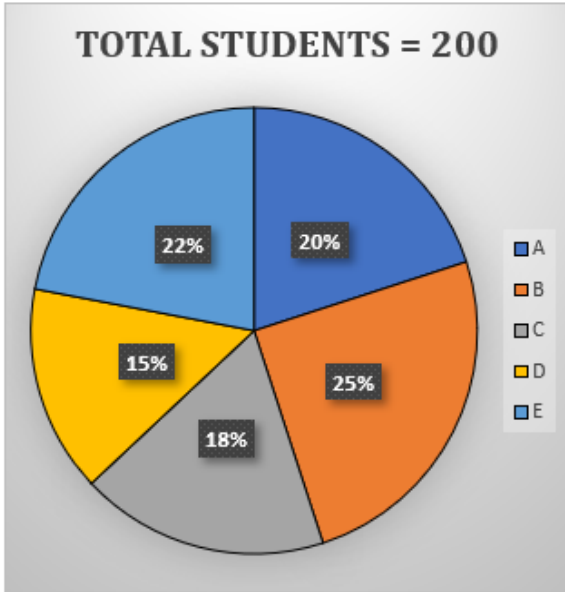
Q89. A sum of Rs $(x + 500)$ is invested for 5 years at 10% simple interest and the amount received is invested for 2 years at 10% annual rate of compound interest. If total compound interest received is Rs 3780, then find x.

- (a) 11500
- (b) 20000
- (c) 11300
- (d) 15000
- (e) 10000

Q90. The ratio of ages of C and D eight year hence will be 25: 29. If B is 11 years younger to C and sum of ages of B and D is 27 years, then find the present age of D (in year).

- (a) 21
- (b) 25
- (c) 22
- (d) 29
- (e) 30

Directions (91-95): Pie chart shows the percent distribution of total number students in five different schools (A, B, C, D, and E) and table shows the percent distribution of total number of boys in these schools. Read the given data carefully and answer the following questions.



Schools	Percentage of boys out of total boys (80)
A	15%
B	35%
C	10%
D	25%
E	15%

Q91. The ratio of boys in schools D and in E who like music to those who does not like music is $p:q$ and $1:3$ respectively. If total boys from schools D and E together who likes music is 21, then find $p \times q$.

- (a) 9
- (b) 12
- (c) 3
- (d) 15
- (e) 18

Q92. If number of boys in the schools represented in a pie chart and degree distribution of C represented as x° , then value of which of the following statement/s is/are equal to the value of 'x'?

- i: Six times the difference between girls in schools A and B.
- ii: Average number of boys and girls in school E.
- iii: Total students in C.

- (a) only (iii)
- (b) only (i)
- (c) both (i) and (iii)
- (d) both (i) and (ii)
- (e) none of these

Q93. Find the ratio of total boys in schools A and B together to the total girls in C?

- (a) 15:11
- (b) 2:1
- (c) 12:11
- (d) 10:7
- (e) 15:53

Q94. In school X, total students are 20% more than that of D and total girls in school X is 8 more than number of boys in that school, then find the total girls in school X.

- (a) 42
- (b) 12
- (c) 32
- (d) 15
- (e) 22

Q95. The students in schools B and E play indoor and outdoor games. The students who play outdoor games in B is same as the students who play indoor games in E and the ratio of students who play indoor games in B and outdoor games in E is 5:4. Find the students who play outdoor games in E is what percentage of total students who play indoor games in both B and E.

- (a) 75%
- (b) 48%
- (c) 25%
- (d) 15%
- (e) 55%

Q96. Time taken by a boat to cover 36 km downstream is 20% less than the time taken by same boat to cover 15 upstream. If difference between downstream and upstream speed of boat is 6 km, then find the distance (in km) travelled by boat in 4 hours 10 minutes in still water.

- (a) 24
- (b) 20
- (c) 30
- (d) 25
- (e) 10

Directions (97-100): In each of these questions, two equation (I) and (II) are given. You have to solve both the equations and give answer.

Q97.

I. $x^2 + 10x - 75 = 0$

II. $y^2 + 13y + 22 = 0$

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

Q98.

I. $y^2 + 16y + 55 = 0$

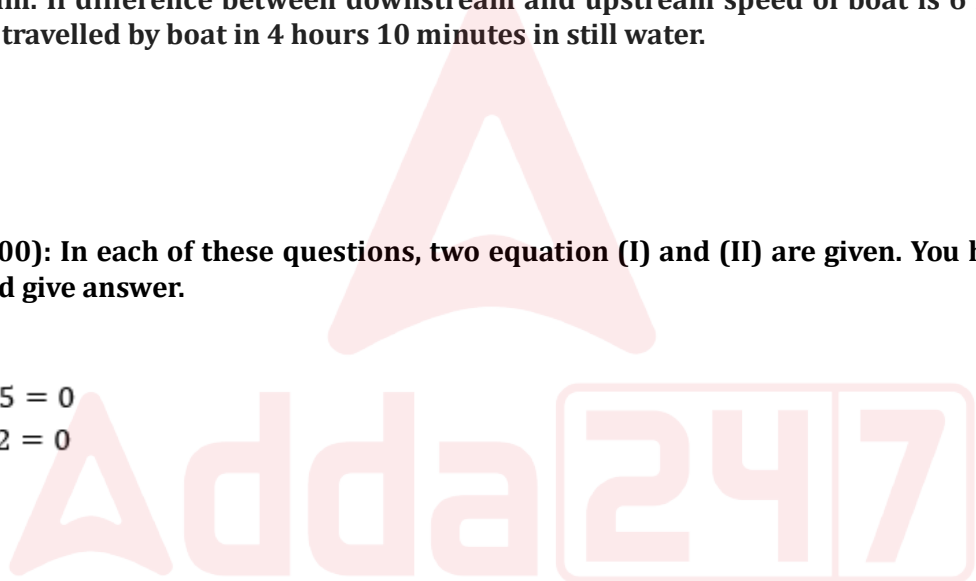
II. $2x^2 - 3x - 14 = 0$

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

Q99.

I. $3x^2 - 5x - 28 = 0$

II. $y^2 - 10y + 25 = 0$



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

Q100.

I. $x^2 + 7x - 18 = 0$

II. $y^2 - y - 42 = 0$

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

Directions (101-105): Table shows the total items manufactured, number of items sold and number of items remain unsold in four (A, B, C and D) different shops. Some of values are missing from the table. Read the given data carefully and answer the following questions.

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	p	y
B	1.65p	$z - y$	320
C	810	-----	210
D	-----	-----	240

Note: Average of total items manufactured by C and D together is 765 and total items sold by shops A and D together is 1280.

Q101. Total items manufactured by shop E is 50% less than the average number of items manufactured by A and B. Total items sold by shop E is $\frac{(z-y)}{2}$, then find the total number of items that remains unsold by shop E.

- (a) 310
- (b) 200
- (c) 300
- (d) 150
- (e) 100

Q102. Average of total number of items sold by all the four shops together is X. Which of the statement/s is /are correct.

- (i) X is equal to the number of total items manufactured by shop D.
- (ii) X is equal to the 200 less than the value of 'y'.
- (iii) X is greater than the number of items that are remains unsold by shops A.
- (a) Both (i) and (ii)
- (b) Only (iii)
- (c) Only (ii)
- (d) Only (i)
- (e) Both (i) and (iii)

Q103. Total number of items sold by shop D out of total items manufactured is $x\%$. Which of the following statement/s is/are correct about x .

- (i) $(y + 80)/18$
- (ii) Same as the percent of items remains unsold by shop A out of total manufactured items.
- (iii) $p/10$
- (a) Both (i) and (ii)
- (b) Only (iii)
- (c) Only (ii)
- (d) Only (i)
- (e) Both (i) and (iii)

Q104. If shop C sold $y/10$ items more than the items sold by him now, then find the average of total number of items remains unsold by all the four shops after C sold more.

- (a) 444.5
- (b) 224.5
- (c) 413.5
- (d) 450.5
- (e) 400.5

Q105. If shops C and D together manufactured 60 more items each and unsold items remain same, then find the sold items by C and D together is what percentage of p .

- (a) 150%
- (b) 120%
- (c) 300%
- (d) 100%
- (e) 124%

Q106. A and B enter into a partnership and invested $(x + 1800)$ and $(x - 1200)$. Profit of A out of total profit 8: 11. Find the value of ' x '. (Note: Time period is same for both the person)

- (a) 3310
- (b) 3200
- (c) 3500
- (d) 3000
- (e) 3100

Q107. The average of set A of five consecutive even number is 18 and set B contains three consecutive even number such that ratio of smallest to largest number is 7:9. Set C contains six consecutive natural number such that second smallest number of set C is the sum of smallest number of sets A and B. Find the second largest number of set C.

- (a) 30
- (b) 20
- (c) 31
- (d) 15
- (e) 9

Q108. Cost price of five items K, L, M, N, and O is Rs 620 each. If items K, L, M, N, and O are sold at ' x ', ' $x + 25$ ', ' $x + 50$ ', ' $x + 75$ ', and ' $x + 100$ ' respectively and after selling all the items 25% profit is earned. Find the profit earned after selling item O (in Rs).

- (a) 210
- (b) 200
- (c) 300
- (d) 205
- (e) 400

Directions (109-113): Given below are two quantities named I and II. Based on the given information, you have to determine the relation between the two quantities.

Q109.

$\sqrt{(x + 45 - mn)^4} = 5x + Q$, one root of the equation is -10 and m and n are the roots of $y^2 - 11y + 30 = 0$.

- I. 75
- II. Q
- (a) I>II
- (b) II>I
- (c) No relation or equal.
- (d) I \geq II
- (e) II \geq I

Q110.

I. Roots of equation: $x^2 - 7\sqrt{3}x - 54 = 0$

II. Roots of equation: $y^2 + \sqrt{2}y - 24 = 0$

- (a) I>II
- (b) II>I
- (c) No relation or equal.
- (d) I \geq II
- (e) II \geq I

Q111.

I. Roots of equation: $x^3 + x^2 + 4x - 63 = x^3 - 3x^2$

II. Roots of equation: $y^3 + 4y^2 - 77y = 0$

- (a) I>II
- (b) II>I
- (c) No relation or equal.
- (d) I \geq II
- (e) II \geq I

Q112. LCM of a and b is 88 and HCF of b and a is 1, such that $a < b$.

I: Roots of equation: $x^2 - ax + 16 = 0$

II: Roots of equation: $y^2 + (7 + b)y + 72 = 0$

- (a) I>II
- (b) II>I
- (c) No relation or equal.
- (d) I \geq II
- (e) II \geq I

Q113.

If $a = 3b$, $\sqrt{a^2 + b^2} = 4\sqrt{10}$

I: Roots of equation: $x^2 - (a + b)x + 39 = 0$

II: Roots of equation: $y^2 - (a + 2b)y + 75 = 0$

- (a) I>II
- (b) II>I
- (c) No relation or equal.
- (d) I \geq II
- (e) II \geq I

Q114. Ratio of total number of students in classes A to B is 9: 11 and the ratio becomes 14: 11 when 10 more students join class A. Which of the following statement/s is/are correct

Statement I: Difference between initial number of students in both the classes is 5.

Statement II: If ratio of boys to girls in class B is 7: 4, then number of girls in class B is 10.

- (a) only statement I is correct
- (b) only statement II is correct
- (c) both I and II are correct
- (d) cannot determined
- (e) none is correct.

Q115. Two statements have been given. Analyze the given statements and answer whether the data given in the statements are sufficient to answer the question or not.

A mixture contains milk and water in the ratio of 16: 9, then find the total quantity of water in the mixture initially.

Statement I: Difference between quantity of milk and water in the mixture becomes 8 liter when quantity of water becomes double of initial.

Statement II: When 4 liters of milk is added and 2 liters of water is removed, then the milk in mixture becomes double of water.

- (a) Only statement I
- (b) Only statement II
- (c) Both I and II are together
- (d) Either I or II
- (e) Neither I nor II

Directions (116-120): Find the missing term in the given series.

Q116. ?, 192, 1536, 6144, 12288, 12288

- (a) 12
- (b) 10
- (c) 6
- (d) 15
- (e) 36

Q117. 1726, 996, 506, 208, 54, ?

- (a) -4
- (b) 2
- (c) -2
- (d) 0
- (e) 18

Q118. 1296, ?, 648, 324, 486, 405

- (a) 6
- (b) 4
- (c) 0
- (d) 5
- (e) 2

Q119. 8, ?, 16, 44, 158, 715

- (a) 2
- (b) 0
- (c) 16
- (d) 4
- (e) 8

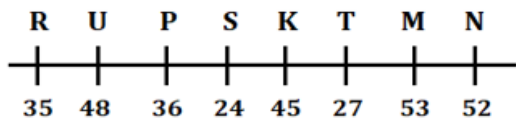
Q120. ?, 70, 346, 1378, 4126, 8242

- (a) 12
- (b) 6
- (c) 8
- (d) 36
- (e) 24

Solutions

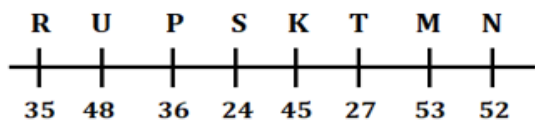
S1. Ans.(e)

Sol.



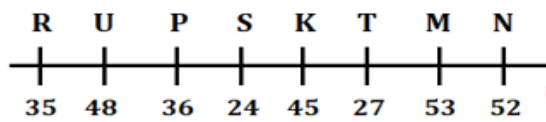
S2. Ans.(c)

Sol.



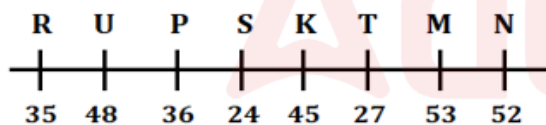
S3. Ans.(c)

Sol.



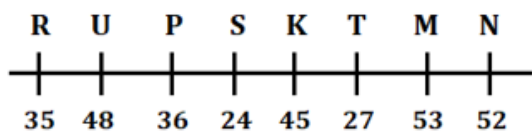
S4. Ans.(b)

Sol.



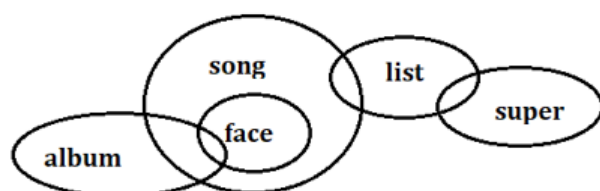
S5. Ans.(d)

Sol.



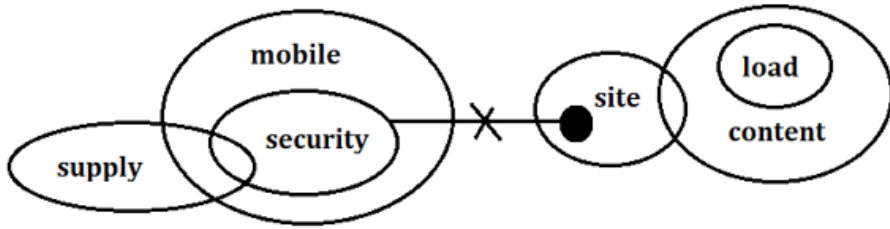
S6. Ans.(a)

Sol.



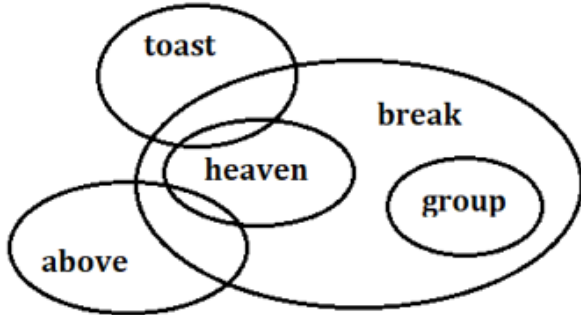
S7. Ans.(d)

Sol.



S8. Ans.(c)

Sol.



S9. Ans.(a)

Sol.

Month	Date	Person	Subject
January	7	F	Music
	28	G	Sociology
February	7	D	Radiology
	28	E	Science
March	7	B	Mathematics
	28	C	Psychology
April	7	H	Business studies
	28	A	English

S10. Ans.(c)

Sol.

Month	Date	Person	Subject
January	7	F	Music
	28	G	Sociology
February	7	D	Radiology
	28	E	Science
March	7	B	Mathematics
	28	C	Psychology
April	7	H	Business studies
	28	A	English

S11. Ans.(b)

Sol.

Month	Date	Person	Subject
January	7	F	Music
	28	G	Sociology
February	7	D	Radiology
	28	E	Science
March	7	B	Mathematics
	28	C	Psychology
April	7	H	Business studies
	28	A	English

S12. Ans.(c)

Sol.

Month	Date	Person	Subject
January	7	F	Music
	28	G	Sociology
February	7	D	Radiology
	28	E	Science
March	7	B	Mathematics
	28	C	Psychology
April	7	H	Business studies
	28	A	English

S13. Ans.(e)

Sol.

Month	Date	Person	Subject
January	7	F	Music
	28	G	Sociology
February	7	D	Radiology
	28	E	Science
March	7	B	Mathematics
	28	C	Psychology
April	7	H	Business studies
	28	A	English

S14. Ans.(c)

Sol. Mr. Desmukh has approached to Mr. Kapil Sibal from congress but it cannot be concluded that new Home Minister will be of Congress Party.

Till now it's an allegation against Mr. Desmukh but judgement has not been given.

Yes, it is correct that after judgement of state High Court, accused can approach Supreme Court as Mr. Deshmukh is also planning to approach Supreme Court after High Court order of CBI Enquiry.

S15. Ans.(c)

S16. Ans.(d)

S17. Ans.(e)

S18. Ans.(d)

Sol. Statement (I)-False-Reason: Population is not being the issue generalized in above statement.

Statement (II)-False-Reason: It is mentioned that India generally focus on wheat and rice, but we can't assume that India is top producer of wheat and rice in world.

Statement (III)-True-Reason: It is already mentioned in given statement that Poor diets globally are more responsible for ill health as compared with the combined effect of drugs, tobacco and alcohol.

S19. Ans.(c)

Sol. Statement (I)-False-Reason: In statement, main issue of hunger has been discussed and FAO chief is raising same issue. So, it is supporting the given statement.

Statement (II)-False-Reason: It is already mentioned in given statement, "India needs focus not only on rice and wheat — more diversity is needed, with the addition of vegetables, fruits and dairy farming."

Statement (III)-True-Reason: Yes, it is abrogating as in statement, it is clearly mention that more people get ill due to Hunger rather than consumption of alcohol and tobacco.

S20. Ans.(d)

Sol. Number: One number is picked and arranged in each step. Numbers are picked from smallest to highest from the input. If the picked number is odd, then twice it and if the picked number is even, then half it. Now the new number is placed at the left end in every step.

Words: One word is picked and arranged in every step. Words are picked as per the reverse alphabetical order of the greatest letter present in the word. Each word is arranged at the right end in every step.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Step I: 22 detail 35 browser update 43 60 region 28 game 56 galaxy

Step II: 14 22 detail 35 update 43 60 region game 56 galaxy browser

Step III: 70 14 22 detail 43 60 region game 56 galaxy browser update

Step IV: 86 70 14 22 60 region game 56 galaxy browser update detail

Step V: 28 86 70 14 22 60 game galaxy browser update detail region

Step VI: 30 28 86 70 14 22 galaxy browser update detail region game

S21. Ans.(d)

Sol. Number: One number is picked and arranged in each step. Numbers are picked from smallest to highest from the input. If the picked number is odd, then twice it and if the picked number is even, then half it. Now the new number is placed at the left end in every step.

Words: One word is picked and arranged in every step. Words are picked as per the reverse alphabetical order of the greatest letter present in the word. Each word is arranged at the right end in every step.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Step I: 22 detail 35 browser update 43 60 region 28 game 56 galaxy

Step II: 14 22 detail 35 update 43 60 region game 56 galaxy browser

Step III: 70 14 22 detail 43 60 region game 56 galaxy browser update

Step IV: 86 70 14 22 60 region game 56 galaxy browser update detail

Step V: 28 86 70 14 22 60 game galaxy browser update detail region

Step VI: 30 28 86 70 14 22 galaxy browser update detail region game

S22. Ans.(c)

Sol. Number: One number is picked and arranged in each step. Numbers are picked from smallest to highest from the input. If the picked number is odd, then twice it and if the picked number is even, then half it. Now the new number is placed at the left end in every step.

Words: One word is picked and arranged in every step. Words are picked as per the reverse alphabetical order of the greatest letter present in the word. Each word is arranged at the right end in every step.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Step I: 22 detail 35 browser update 43 60 region 28 game 56 galaxy
Step II: 14 22 detail 35 update 43 60 region game 56 galaxy browser
Step III: 70 14 22 detail 43 60 region game 56 galaxy browser update
Step IV: 86 70 14 22 60 region game 56 galaxy browser update detail
Step V: 28 86 70 14 22 60 game galaxy browser update detail region
Step VI: 30 28 86 70 14 22 galaxy browser update detail region game

S23. Ans.(c)

Sol. Number: One number is picked and arranged in each step. Numbers are picked from smallest to highest from the input. If the picked number is odd, then twice it and if the picked number is even, then half it. Now the new number is placed at the left end in every step.

Words: One word is picked and arranged in every step. Words are picked as per the reverse alphabetical order of the greatest letter present in the word. Each word is arranged at the right end in every step.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Step I: 22 detail 35 browser update 43 60 region 28 game 56 galaxy
Step II: 14 22 detail 35 update 43 60 region game 56 galaxy browser
Step III: 70 14 22 detail 43 60 region game 56 galaxy browser update
Step IV: 86 70 14 22 60 region game 56 galaxy browser update detail
Step V: 28 86 70 14 22 60 game galaxy browser update detail region
Step VI: 30 28 86 70 14 22 galaxy browser update detail region game

S24. Ans.(b)

Sol. Number: One number is picked and arranged in each step. Numbers are picked from smallest to highest from the input. If the picked number is odd, then twice it and if the picked number is even, then half it. Now the new number is placed at the left end in every step.

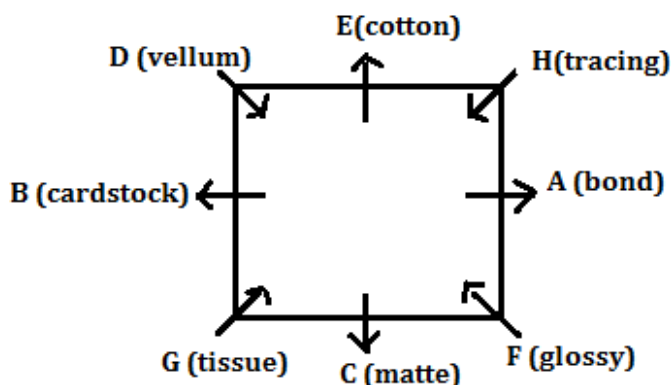
Words: One word is picked and arranged in every step. Words are picked as per the reverse alphabetical order of the greatest letter present in the word. Each word is arranged at the right end in every step.

Input: detail galaxy 35 browser 11 update 43 60 region 28 game 56

Step I: 22 detail 35 browser update 43 60 region 28 game 56 galaxy
Step II: 14 22 detail 35 update 43 60 region game 56 galaxy browser
Step III: 70 14 22 detail 43 60 region game 56 galaxy browser update
Step IV: 86 70 14 22 60 region game 56 galaxy browser update detail
Step V: 28 86 70 14 22 60 game galaxy browser update detail region
Step VI: 30 28 86 70 14 22 galaxy browser update detail region game

S25. Ans.(c)

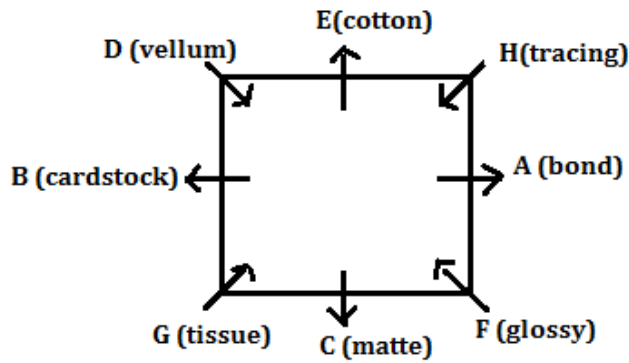
Sol. Final arrangement:



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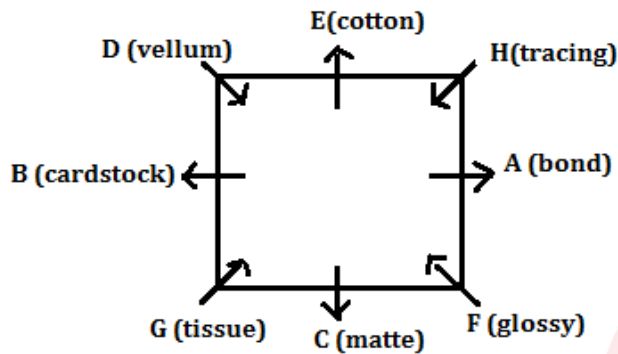
S26. Ans.(d)

Sol. Final arrangement:



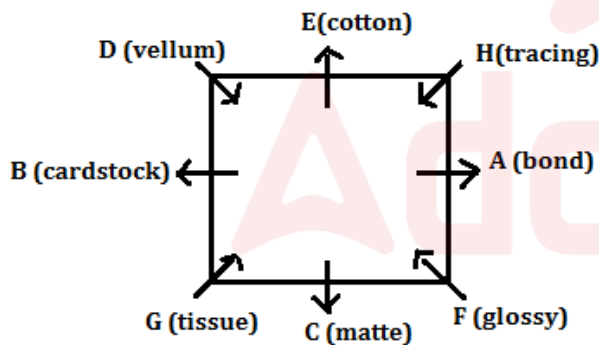
S27. Ans.(b)

Sol. Final arrangement:



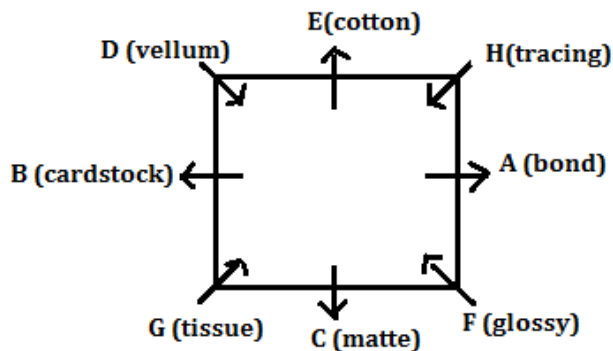
S28. Ans.(a)

Sol. Final arrangement:



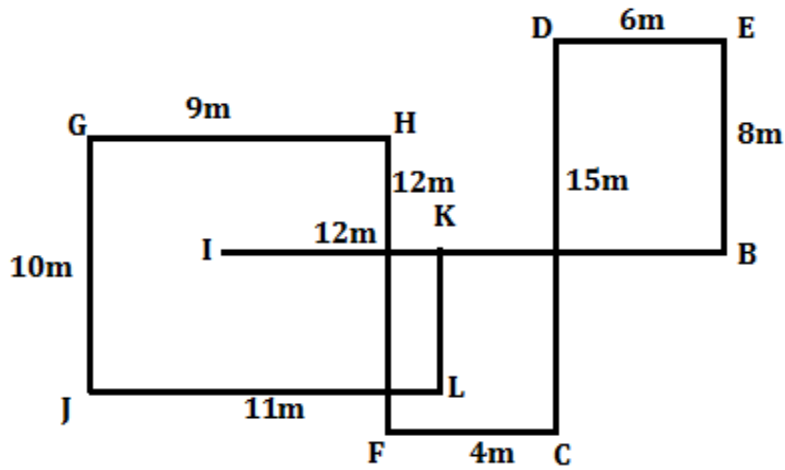
S29. Ans.(e)

Sol. Final arrangement:



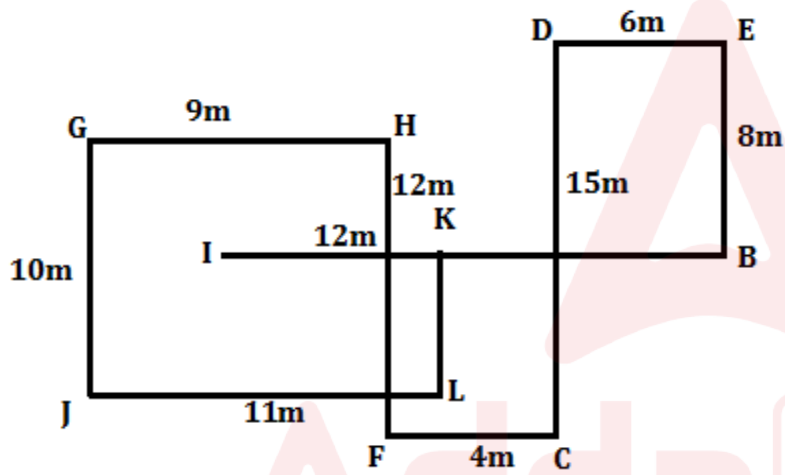
S30. Ans.(d)

Sol. Final arrangement:



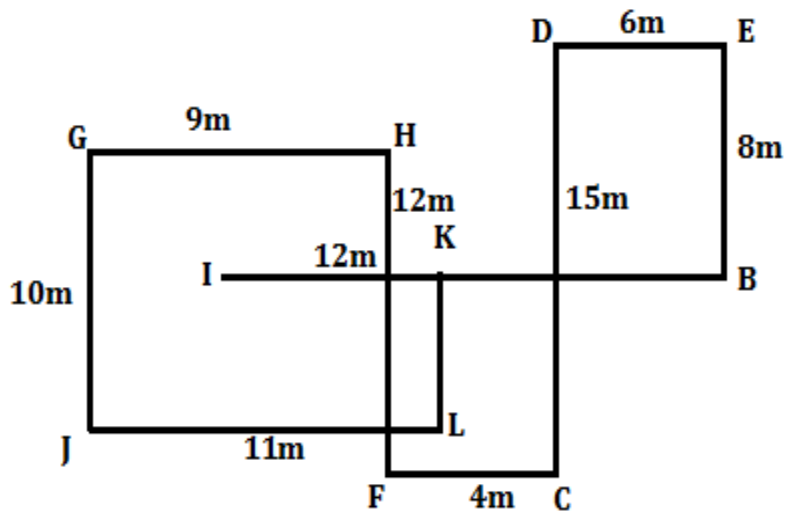
S31. Ans.(b)

Sol. Final arrangement:



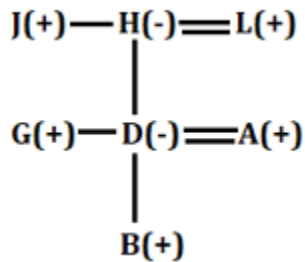
S32. Ans.(c)

Sol. Final arrangement:



S33. Ans.(c)

Sol.



S34. Ans.(d)

Sol. Only (a) and (c) are inline to the theme of given statement as option (a) are telling about launch of brands and option (c) is about market fallen of automobile sector and car belongs to automobile sector. In given statement theme is about launch, expansion and success of Lamborghini car.

S35. Ans.(b)

Sol. Sale of car to some of the top business can't make profit. If it is reachable to general people and make business to almost all sections of society then it will be a huge hit.

Option (II) strengthen the given statement as if there is a hard work for bread and butter then Lamborghini is out of reach for them.

S36. Ans.(b)

Sol. Final arrangement:

Cities	Persons /Sports		
X	E, Cricket	B, Hockey	H, Basketball
Y	F, Golf	A, Chess	
Z	C, Tennis	D, Football	G, Archery

S37. Ans.(a)

Sol. Final arrangement:

Cities	Persons /Sports		
X	E, Cricket	B, Hockey	H, Basketball
Y	F, Golf	A, Chess	
Z	C, Tennis	D, Football	G, Archery

S38. Ans.(c)

Sol. Final arrangement:

Cities	Persons /Sports		
X	E, Cricket	B, Hockey	H, Basketball
Y	F, Golf	A, Chess	
Z	C, Tennis	D, Football	G, Archery

S39. Ans.(d)

Sol. Final arrangement:

Cities	Persons /Sports		
X	E, Cricket	B, Hockey	H, Basketball
Y	F, Golf	A, Chess	
Z	C, Tennis	D, Football	G, Archery

S40. Ans.(e)

Sol. Final arrangement:

Cities	Persons /Sports		
X	E, Cricket	B, Hockey	H, Basketball
Y	F, Golf	A, Chess	
Z	C, Tennis	D, Football	G, Archery

S41. Ans.(c)

Sol. Refer to the lines, “EMI's market research identified a growing consumer demand for environmentally friendly vehicles.”

Explanation:

EMI's market research identified a growing consumer demand for environmentally friendly vehicles. This finding prompted the company to make strategic changes, emphasizing the importance of catering to the increasing interest and preference among consumers for vehicles that are environmentally sustainable. The rephrased option (c) accurately captures this key information from the passage.

S42. Ans.(e)

Sol. Refer to the lines, “The company employs a robust online presence, leveraging social media platforms to disseminate engaging content about their EVs, sustainability initiatives, and technological advancements. This approach not only enhances brand visibility but also fosters a community of environmentally conscious consumers.”

Explanation:

(I) EMI can expand its market reach, targeting a diverse audience interested in sustainable and eco-friendly products:

A robust online presence allows EMI to reach a broader audience, including individuals actively seeking sustainable and eco-friendly products. This helps the company tap into a growing market segment interested in environmentally conscious choices.

(II) Enhances EMI's brand visibility, which can contribute to a positive brand image:

An active online presence increases the visibility of EMI's brand among the target audience. This heightened visibility, when coupled with a focus on sustainability, contributes to a positive brand image, especially among consumers who value eco-friendly practices.

(III) Can create a space for like-minded individuals to engage, share ideas, and support the company's sustainability goals:

Through digital platforms, EMI can foster a community of environmentally conscious consumers. This virtual space allows like-minded individuals to engage with the brand, share ideas, and actively support EMI's sustainability initiatives. This sense of community can strengthen brand loyalty and advocacy.

Therefore, all three statements (I), (II), and (III) highlight the benefits that EMI can derive from having a robust online presence in the context of their sustainability initiatives.

S43. Ans.(d)

Sol. Refer to the lines, “Test-drive events and interactive online experiences offer potential customers firsthand exposure to the brand, contributing to increased interest and conversion rates.”

(a) Fosters engagement by allowing customers to explore features and benefits of electric vehicles:
Test-drive events and interactive online experiences provide customers with hands-on opportunities to explore the features and benefits of EMI's electric vehicles. This fosters engagement by allowing potential customers to directly experience the product, which can create a more memorable and impactful impression.

(b) Contributes to increased conversion rates as customers make informed decisions based on their experiences:
Engaging potential customers through test-drive events and interactive online experiences allows them to make informed decisions about EMI's electric vehicles. These firsthand experiences contribute to increased conversion rates, as individuals are more likely to choose a product they have interacted with and found favorable during these events.

(c) While participants may attend for a specific product, test-drive events provide opportunities to cross-sell other products:
While this is a plausible strategy in marketing, the passage does not provide explicit information about EMI's use of test-drive events for cross-selling other products.
Therefore, both statements (a) and (b) accurately capture the roles that test-drive events and interactive online experiences play in EMI's strategy to engage potential customers.

S44. Ans.(d)

To determine which statement is false according to the passage, let's analyze each statement against the given text:
Statement (a): "EMI's marketing strategy revolves around sustainability, technological prowess, and customer engagement."

This is true. The passage clearly states that EMI's strategy revolves around sustainability, technological prowess, and customer engagement.

Statement (b): "Digital marketing plays a pivotal role in EMI's strategy, enhancing brand visibility and fostering a community of environmentally conscious consumers."

This is true. The passage mentions that EMI employs a robust online presence and leverages social media platforms to enhance brand visibility and foster a community of environmentally conscious consumers.

Statement (c): "EMI collaborates with influencers and environmental advocates to amplify its reach."

This is true. The passage states that EMI's collaboration with influencers and environmental advocates has further amplified its reach.

Statement (d): "Electric Motors Inc. (EMI) focuses on educational campaigns to distract diverse consumer segments."

This is false. The passage states that EMI focuses on educational campaigns to attract diverse consumer segments, not to distract them. The word "distract" is incorrect in this context.

Statement (e): "All are true."

This is false because statement (d) is false.

Therefore, the correct answer is:

(d) Electric Motors Inc. (EMI) focuses on educational campaigns to distract diverse consumer segments.

S45. Ans.(b)

Sol. 'Cultivate' has the same meaning as 'fosters'.

Here are the meanings of the words:

(a) **challenge** - a call to take part in a contest or competition, often requiring effort or skill.

(b) **cultivate** - to foster the growth or development of; to nurture or promote.

(c) **animate** - to give life or energy to; to make lively or spirited.

(d) **instigate** - to initiate or provoke an action, usually with a negative connotation, such as inciting trouble or causing unrest.

(e) **incite** - to encourage, stir up, or provoke, often with the intention of causing negative or violent behavior.

S46. Ans.(a)

Sol. The correct answer is: "Small businesses faced operational disruptions due to challenges in the supply chain."

Refer to the lines, “**The pandemic, causing isolation measures, led to unpredictable shifts in demand for goods and services, impacting global supply chains. Ports clogged up, truck driver shortages worsened, and companies struggled to secure raw materials, particularly affecting small businesses across the United States.**”

Explanation:

The passage mentions that small businesses in the United States particularly felt the strain during the Covid-19 pandemic due to disruptions in the supply chain. The challenges in the supply chain included clogged ports, truck driver shortages, and difficulties in securing raw materials. These issues impacted the ability of small businesses to operate smoothly, making option (a) the most accurate representation of the information provided in the passage.

S47. Ans.(e)

Sol. The TRUE statement based on the passage is:

(e) The Business Trends and Outlook Survey (BTOS) showed a decrease in domestic and foreign supplier delays from the initial phase in July 2022 to the most recent data in July 2023.

Explanation:

The passage mentions that the most recent data from July 2023 in the Business Trends and Outlook Survey (BTOS) showed significant improvements, with domestic supplier delays dropping to 14.5% and foreign supplier delays decreasing to 4.3%. This confirms that there was a decrease in both domestic and foreign supplier delays, making option (e) the correct statement.

S48. Ans.(b)

Sol. Let's analyze each statement against the passage to determine which is true:

Statement (a): "The BTOS started tracking supply chain issues in May 2021."

This is false. The passage states that the BTOS started tracking supply chain issues in July 2022.

Statement (b): "Inflation impacted the logistical operations during the pandemic."

This is true. The passage discusses how rising inflation was a significant issue during the pandemic, affecting businesses and their logistical operations.

Statement (c): "The SBPS revealed that foreign supplier delays increased to 29.4% by May 2021."

This is false. The passage indicates that domestic supplier delays were 29.4% by May 2021, not foreign supplier delays.

Statement (d): "The disruptions in the supply chain during the pandemic primarily affected large businesses rather than small businesses."

This is false. The passage specifically mentions that small businesses were particularly affected by supply chain disruptions.

Statement (e): "All are false."

This is not correct because statement (b) is true.

Therefore, the correct answer is:

(b) Inflation impacted the logistical operations during the pandemic.

S49. Ans.(d)

Sol. The most suitable word to fill in the given blank is: “**mirrored**”.

(a) **forged**: Created or developed with effort.

(b) **presumed**: Supposed or assumed without sufficient evidence.

(c) **calculate**: Determine by reasoning or computation.

(d) **mirrored**: Reflected or closely resembled.

(e) **pressurized**: Subjected to pressure or stress.

S50. Ans.(a)

Sol. The tone of the passage is: “**analytical**”.

The choice of "analytical" as the tone is based on the passage's focus on presenting information, analyzing challenges faced by businesses during the Covid-19 pandemic, and discussing data from surveys conducted by the U.S. Census Bureau. The passage objectively examines the impact of disruptions in the supply chain and rising

inflation on businesses, using statistical data from the Small Business Pulse Survey (SBPS) and the Business Trends and Outlook Survey (BTOS). The language used is informative and neutral, reflecting an analytical approach to conveying the challenges faced by businesses during the pandemic.

S51. Ans.(c)

Sol. The word "enhance" in the passage means to improve or increase. However, in the context of the sentence, a more appropriate word would be "altered," indicating a change in the work culture. Therefore, the correct answer is: "**altered**".

Meaning of words:

- (a) **captured:** to take into one's possession or control.
- (b) **volunteered:** to offer to do something willingly without being forced.
- (c) **altered:** to change or modify.
- (d) **realised:** to become aware of something; to understand.
- (e) No replacement required: indicates that the original word "enhance" is appropriate.

S52. Ans.(a)

Sol. In the original passage, the sentence talks about remote work "degrading" as a lasting trend. However, "degrading" in this context doesn't make sense as it suggests a decline or deterioration, which contradicts the overall positive tone of the sentence.

In this sentence, "emerging" is a more suitable replacement for "degrading" as it conveys the idea that virtual collaboration tools are becoming more prominent and important. Therefore, the correct answer is: "**emerging**".

Meaning of words:

- (a) **emerging:** becoming more prominent or coming into view.
- (b) **challenging:** difficult, requiring effort or skill.
- (c) **risking:** exposing oneself to the chance of danger or loss.
- (d) **maintaining:** preserving or keeping in a particular state.
- (e) **No replacement required:** indicates that the original word "degrading" is appropriate.

S53. Ans.(e)

Sol. The original word "collaboration" is appropriate, and there is no need for replacement. Therefore, the correct answer is (e) No replacement required.

In this context, "collaboration" refers to the act of working together or cooperating, and it fits appropriately with the overall meaning of the sentence. "Collaboration tools" are tools that facilitate working together, and there is no need to replace or change the word "collaboration" in this context.

Meaning of words:

- (a) **invitation:** a formal request to attend or participate in an event.
- (b) **practice:** the act of doing something regularly.
- (c) **division:** the act or process of dividing.
- (d) **generation:** a group of individuals born and living at the same time.
- (e) **No replacement required:** indicates that the original word "collaboration" is appropriate.

S54. Ans.(b)

Sol. The word "**seamless**" is a suitable replacement for "coherent," emphasizing smooth and uninterrupted communication. Therefore, the correct answer is (b) seamless.

Meaning of words:

- (a) **intellectual:** related to or involving the intellect or intelligence.
- (b) **seamless:** smooth and continuous, without interruptions or inconsistencies.
- (c) **diligent:** characterized by careful and persistent effort.
- (d) **impediment:** a hindrance or obstruction to progress.
- (e) **No replacement required:** indicates that the original word "communication" is appropriate.

S55. Ans.(d)

Sol. The word "criticize" means to express disapproval, but in the context of the sentence, the more appropriate word is "**prioritize**," indicating that employers are giving importance to employee well-being. Therefore, the correct answer is (d) prioritize.

Meaning of words:

- (a) **restrict:** to limit or control.
- (b) **concern:** a feeling of worry or interest in something.
- (c) **ignore:** to pay no attention to or disregard.
- (d) **prioritize:** to give importance or precedence to something.
- (e) **No replacement required:** indicates that the original word "criticize" is appropriate.

S56. Ans.(a)

Sol. The word "**transformation**" is a suitable replacement for "maintenance" in the context of describing a significant change in how work is approached. Therefore, the correct answer is (a) transformation.

Meaning of words:

- (a) **transformation:** a thorough or dramatic change.
- (b) **event:** a happening or occurrence.
- (c) **term:** a fixed or limited period for which something lasts.
- (d) **affect:** to have an influence on or make a change in.
- (e) **No replacement required:** indicates that the original word "maintenance" is appropriate.

S57. Ans.(c)

Sol. The sentence contains a grammatical error in parts (A) and (C).

In part (A), "or" is incorrect after "Neither." The correct conjunction is "nor" to maintain parallelism.

In part (C), "was" is incorrect because it does not agree with the plural subject "students." The correct verb is "were."

So, the corrected sentence is: "Neither the teacher **nor** the students in the advanced physics class **were** satisfied with the content of the textbook."

S58. Ans.(c)

Sol. The sentence contains a grammatical error in parts (A) and (C). Here's the corrected sentence:

"Not only did the storm disrupt the power supply, but it also caused significant damage to the infrastructure in the coastal region."

The errors and corrections are as follows:

In part (A), the word "did" should be placed after "Not only" to make the sentence grammatically correct.

In part (C), "damaged" should be corrected to "damage" to maintain parallelism in the sentence.

So, the correct answer is (c) A-C.

S59. Ans.(a)

Sol. The sentence contains a grammatical error in parts (A) and (D). Here's the corrected sentence:

"During her vacation, she hopes to explore charming local markets, indulge in delicious regional cuisines, and immerse herself in the rich cultural traditions of the area."

The errors and corrections are as follows:

In part (A), "hope" should be corrected to "hopes" to agree with the singular subject "she."

In part (D), "her" should be corrected to "herself". When expressing actions that the subject (she) does to herself, a reflexive pronoun is required for grammatical correctness.

So, the correct answer is (a) A-D.

S60. Ans.(e)

Sol. The sentence is correct, and there is no error. Therefore, the correct answer is (e) No error.

S61. Ans.(b)

Sol. The sentence contains a grammatical error in parts (A) and (D). Here's the corrected sentence:

" Scarcely had she entered the room when the unexpected applause erupted, surprising her as the audience acknowledged her remarkable performance."

In part (A), the word order is incorrect. The correct word order for "scarcely" is to use inversion, placing the auxiliary verb before the subject.

The error in part (D) involves the misuse of the indefinite article "a" before "remarkable performance."

S62. Ans.(c)

Sol. The correct sequence of rearrangement is "ADCEB".

Thus, the correct sentence formed will be "The concept of artificial intelligence becoming ubiquitous in everyday life raises important ethical considerations regarding privacy and data security."

S63. Ans.(c)

Sol. The third sentence after rearrangement should be "C".

The sequence "DECBFA" is structured to present a cohesive and logical narrative about consumer behaviour. It starts by defining consumer behaviour (D), then elaborates on its various influencing factors (E). The passage emphasizes the practical significance of understanding consumer behaviour for businesses (C), followed by examples of how successful businesses apply this knowledge in marketing (B, F). The concluding sentence (A) wraps up the information by summarizing the critical role of studying consumer behaviour in crafting effective marketing strategies and maintaining customer loyalty.

S64. Ans.(b)

Sol. The first sentence after rearrangement should be "D".

The sequence "DECBFA" is structured to present a cohesive and logical narrative about consumer behaviour. It starts by defining consumer behaviour (D), then elaborates on its various influencing factors (E). The passage emphasizes the practical significance of understanding consumer behaviour for businesses (C), followed by examples of how successful businesses apply this knowledge in marketing (B, F). The concluding sentence (A) wraps up the information by summarizing the critical role of studying consumer behaviour in crafting effective marketing strategies and maintaining customer loyalty.

S65. Ans.(b)

Sol. The sixth sentence after rearrangement should be "A".

The sequence "DECBFA" is structured to present a cohesive and logical narrative about consumer behaviour. It starts by defining consumer behaviour (D), then elaborates on its various influencing factors (E). The passage emphasizes the practical significance of understanding consumer behaviour for businesses (C), followed by examples of how successful businesses apply this knowledge in marketing (B, F). The concluding sentence (A) wraps up the information by summarizing the critical role of studying consumer behaviour in crafting effective marketing strategies and maintaining customer loyalty.

S66. Ans.(d)

Sol. The fourth sentence after rearrangement should be "B".

The sequence "DECBFA" is structured to present a cohesive and logical narrative about consumer behaviour. It starts by defining consumer behaviour (D), then elaborates on its various influencing factors (E). The passage emphasizes the practical significance of understanding consumer behaviour for businesses (C), followed by examples of how successful businesses apply this knowledge in marketing (B, F). The concluding sentence (A) wraps up the information by summarizing the critical role of studying consumer behaviour in crafting effective marketing strategies and maintaining customer loyalty.

S67. Ans.(a)

Sol. The Penultimate sentence after rearrangement should be "F".

The sequence "DECBFA" is structured to present a cohesive and logical narrative about consumer behaviour. It starts by defining consumer behaviour (D), then elaborates on its various influencing factors (E). The passage emphasizes the practical significance of understanding consumer behaviour for businesses (C), followed by examples of how successful businesses apply this knowledge in marketing (B, F). The concluding sentence (A) wraps up the information by summarizing the critical role of studying consumer behaviour in crafting effective marketing strategies and maintaining customer loyalty.

S68. Ans.(b)

Sol. The correct choice is: (b) along with several others

Explanation:

(a) "besides several others" doesn't fit well in the context. It implies that the book is in addition to several others, but it doesn't convey the idea that the friend owns them.

(b) "along with several others" is the correct choice. This phrase indicates that the book on the shelf is part of a collection owned by the friend.

(c) "over many other" is not appropriate in this context. It suggests a physical placement of the book, which is not the intended meaning.

(d) "through others" doesn't convey the idea of ownership or inclusion in a collection.

(e) "and the much others" is grammatically incorrect and doesn't convey a clear meaning.

So, the correct choice is (b) "along with several others" as it appropriately indicates that the book on the shelf is part of a collection owned by the friend.

S69. Ans.(b)

Sol. The correct choice is: (b) is scheduled to meet

Explanation:

"The committee" is a singular entity, so we need a singular verb. Therefore, options (a) and (e) with "are going to meet" are incorrect.

Option (c) with "is witnessing to meet" doesn't convey the intended meaning and is grammatically awkward.

Option (d) with "is scheduling to see" is not appropriate; we need to express a regular, planned meeting.

The correct and most suitable choice is (b) "is scheduled to meet," indicating a planned, regular occurrence.

S70. Ans.(d)

Sol. The correct choice is: (d) is required to submit

Explanation:

"Each of the students" is a singular subject, so we need a singular verb. Therefore, options (a) and (c) with "require" are incorrect.

Option (b) with "is required to be submitted" changes the intended meaning; it suggests the homework itself needs to be submitted, not the students.

Option (e) with "requires to submits" has a subject-verb agreement error and is not grammatically correct.

The correct and most suitable choice is (d) "is required to submit," which accurately conveys that each student is individually required to submit their homework assignment.

S71. Ans.(a)

Sol. The correct choice is: (a) is a subject of much

Explanation:

"The company's decision" is a singular subject, so we need a singular verb. Therefore, option (b) with "are a subject of much" is incorrect.

Option (c) with "is the subject of more" changes the intended meaning and doesn't fit well in the context.

Option (d) with "is a subject at many" is grammatically incorrect and doesn't convey the idea of being a subject of debate.

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Option (e) with "is a subject of several" is less appropriate in this context; "much" better emphasizes the intensity of the debate.

The correct and most suitable choice is (a) "is a subject of much," indicating that the company's decision is a significant topic of debate.

S72. Ans.(e)

Sol. The correct choice is: (e) challenges readers to rethink

Explanation:

"The concept of time" is a singular subject, so we need a singular verb. Therefore, options (a) and (c) with "challenge" are incorrect.

Option (b) with "challenges reader to be rethought" is awkward and changes the intended meaning.

Option (d) with "insist readers to read" is grammatically incorrect and doesn't convey the idea of reconsidering perspectives.

The correct and most suitable choice is (e) "challenges readers to rethink," indicating that the exploration of the concept of time prompts readers to reconsider their perspectives.

S73. Ans.(d)

Sol. The most appropriate set of words to replace the highlighted words is option (d).

Meanings of the words in option (d):

Pursuit: The action of following or pursuing someone or something.

Choice: An act of selecting or making a decision when faced with two or more possibilities.

Vitality: The state of being strong and active; energy.

Habit: A settled or regular tendency or practice, especially one that is hard to give up.

Here are brief meanings of all the words in each option:

(a) placid, options, caution, relation

Placid: Calm and peaceful.

Options: Choices or alternatives.

Caution: Careful attention to avoid danger.

Relation: Connection or association.

(b) junction, function, feasibility, rescue

Junction: A point where two or more things are joined.

Function: The purpose or role of something.

Feasibility: The practicality or possibility of something.

Rescue: The act of saving someone or something from harm or danger.

(c) organisation, modesty, walk, honesty

Organisation: A structured group of people with a common purpose.

Modesty: Humility or lack of arrogance.

Walk: The action of moving on foot.

Honesty: Truthfulness and integrity.

S74. Ans.(c)

Sol. The most appropriate set of words to replace the highlighted words is option (c).

Meanings of the words in option (c):

Realm: A field or domain of activity or influence.

Innovation: The introduction of something new or a new idea, method, or device.

Shaping: The act of giving a particular form or structure to something.

Creativity: The ability to produce or use original and unusual ideas.

In the context of the sentence, these words convey the idea of technology, innovation, and the shaping of a future where artificial intelligence and human mentality converge.

Here are brief meanings of all the words in each option:

(a) kingdom, growth, moulding, relativity

Kingdom: A country or state.

Growth: The process of increasing in size or developing.
Moulding: Shaping or forming.
Relativity: The dependence of a phenomenon on the frame of reference.
(b) adversity, upgradation, revamping, transaction
Adversity: Difficulties or misfortune.
Upgradation: The act of improving or upgrading.
Revamping: Renovating or restructuring.
Transaction: An instance of buying or selling goods or services.
(d) outlet, imagination, connecting, practical
Outlet: A means of expressing one's talents, energy, or emotions.
Imagination: The ability to create mental images.
Connecting: Joining or linking.
Practical: Concerned with actual use or practice.

S75. Ans.(a)

Sol. (a) Under, organisms, intricate, conducted is the correct choice.
meanings of all the words:

(a) Under, organisms, intricate, conducted

Under: Below or beneath.

Organisms: Living entities, especially those of a microscopic nature or belonging to a particular group.

Intricate: Complicated or detailed.

Conducted: Carried out or performed.

(b) On, creature, wide, collaborated

On: In contact with or supported by.

Creature: A living being; an animal.

Wide: Extending over a large area; broad.

Collaborated: Worked together with others.

(c) Beneath, mammals, fine, co-related

Beneath: Below or under.

Mammals: Warm-blooded vertebrate animals characterized by the presence of mammary glands.

Fine: Of high quality or precision.

Co-related: Having a mutual or reciprocal relationship.

(d) At, animals, optimal, merged

At: Expressing location or position.

Animals: Living organisms that are not plants.

Optimal: Most favorable or desirable.

Merged: Combined or blended.

S76. Ans.(e)

Sol. The original sentence is well-constructed, and the highlighted words do not require replacement. Therefore, the correct answer is indeed (e) No replacement required.

Here are the meanings of the words in each option:

(a) fulfillment, degraded, generosity, ridicule

Fulfillment: The state of being satisfied or happy because one's desires have been achieved.

Degraded: Reduced in quality or value.

Generosity: The quality of being kind, understanding, and not selfish.

Ridicule: The act of mocking or making fun of someone in a contemptuous manner.

(b) positivity, swift, sadness, misery

Positivity: The state or character of being positive, optimistic, or constructive.

Swift: Moving or capable of moving with great speed.

Sadness: The state or quality of being sad or unhappy.

Misery: Extreme unhappiness or suffering.

(c) growth, untidy, beauty, advantage

Growth: The process of increasing in size, number, value, or importance.

Untidy: Not neat or well-organized; messy.

Beauty: A combination of qualities, such as shape, color, or form, that pleases the aesthetic senses.

Advantage: A condition or circumstance that puts one in a favorable or superior position.

(d) hypocrisy, ignorant, virtue, destruction

Hypocrisy: The practice of claiming to have moral standards or beliefs to which one's own behavior does not conform.

Ignorant: Lacking knowledge, awareness, or education.

Virtue: Behavior showing high moral standards.

Destruction: The action or process of causing so much damage to something that it no longer exists or cannot be repaired.

S77. Ans.(d)

Sol. Option (d) combines the positive elements of warmth and laughter with a focus on creating lasting memories, providing a well-rounded and contextually appropriate sentence.

Here are the meanings of the words in each option:

(a) hindrance, despaired, transcribed, collection

Hindrance: Something that provides resistance, delay, or obstruction to progress.

Despaired: Felt or expressed a complete loss of hope; to be in a state of despair.

Transcribed: Converted or recorded in a written or typed form.

Collection: A group of objects or things gathered together.

(b) brevity, happiness, forms, elation

Brevity: Conciseness and exact use of words in writing or speech.

Happiness: The state of being happy; characterized by joy and contentment.

Forms: Various types or kinds; structures or shapes.

Elation: A state of great happiness or joy.

(c) problems, melancholy, narrates, delight

Problems: Difficulties or challenges; situations that require resolution.

Melancholy: A feeling of deep sadness or sorrow.

Narrates: Tells a story or gives an account of events.

Delight: A high degree of pleasure or enjoyment.

(d) warmth, laughter, created, memories

Warmth: The quality, state, or sensation of being warm; friendliness or affection.

Laughter: The action or sound of laughing.

Created: Brought into existence or formed.

Memories: Recollections or remembrances of past events.

S78. Ans.(d)

Sol. Meaning of the idiom "on the run":

The idiom "on the run" means to be in a hurry or to be constantly busy and active, usually because of a busy schedule or the need to avoid capture or detection.

Detailed Solution:

(A) The journalist filed the report while on the run, capturing the essence of the breaking news story.

This statement correctly uses the idiom "on the run" to convey that the journalist filed the report while being busy or actively involved.

(B) Parents often find themselves doing chores on the run, multitasking to keep up with the demands of family life.

This statement also correctly uses the idiom "on the run" to describe parents being busy and multitasking to manage family responsibilities.

(C) Instead of crying over spilled milk, she quickly cleaned up the mess and on the run.

This statement contains an error in the use of the idiom. The correct form should be "cleaned up the mess and moved on" or a similar expression.

Correct Statements:

Both (A) and (B) correctly use the idiom "on the run."

S79. Ans.(a)

Sol. Meaning of the idiom "under the weather":

The idiom "under the weather" means to feel unwell or sick.

Detailed Solution:

(A) Feeling under the weather, John decided to stay home and get some rest instead of going to the party.

This statement correctly uses the idiom to convey that John was not feeling well and chose to rest.

(B) Unable to contain the excitement, she finally decided to be under the weather about the surprise party.

This statement contains an error. The idiom "under the weather" is used to express being unwell, not to describe excitement. The correct expression for excitement would be something like "over the moon."

(C) Faced with a challenging decision, he had to be under the weather and confront the issue head-on.

This statement also contains an error. The idiom is used to describe physical unwellness, not a challenging decision.

Correct Statement:

Only (A) correctly uses the idiom "under the weather."

S80. Ans.(b)

Sol. Meaning of the idiom "piece of cake":

The idiom "piece of cake" means something that is very easy to do or accomplish.

Detailed Solution:

(A) As the deadline approached, the dedicated student had a piece of cake to complete the research paper.

This statement contains an error. The idiom is used to describe something that is easy to do, not the act of having a piece of cake.

(B) Completing the puzzle turned out to be a piece of cake for the experienced crossword enthusiast.

This statement correctly uses the idiom to convey that completing the puzzle was very easy for the crossword enthusiast.

(C) Taking the exam was a piece of cake for the well-prepared student who had studied diligently all semester.

This statement also correctly uses the idiom to describe that taking the exam was very easy for the well-prepared student.

Correct Statements:

Both (B) and (C) correctly use the idiom "piece of cake."

S81. Ans.(a)

Sol.

For A, Let the total number of chairs sold by A = $5x$

So, total tables sold by A = $4x$

Cost of table = Rs 240

Cost of chair = $390 - 240 = \text{Rs } 150$

For B, Table sold by B = $\frac{5}{4} \times 4x = 5x$

$5x = 220$

$44 = x$

Table sold by B = 220

Cost of chair = Rs 200

Cost of table = $500 - 200 = \text{Rs } 300$

For C, Let the total chairs be y.

$$\text{Table} = y - 40$$

$$4x + 5x + y - 40 = 500$$

$$144 = y$$

$$\text{Table sold} = 104$$

$$\text{Cost of table} = 75\% \text{ of } 300 = \text{Rs } 225$$

$$\text{Chair cost} = \text{Rs } 75$$

$$\text{Chair sold by B} = \frac{1}{2} \times 144 = 72$$

Shops	Total chairs	Cost of each chair	Total tables	Cost of each table
A	220	150	176	240
B	72	200	220	300
C	144	75	104	225

$$\text{ATQ, } 50\% \text{ of } 72 \times 200 \times \frac{10}{100} - 5 \times 300 \times \frac{20}{100}$$

$$720 - 300 = \text{Rs } 420$$

S82. Ans.(c)

Sol.

For A, Let the total number of chairs sold by A = 5x

So, total tables sold by A = 4x

Cost of table = Rs 240

Cost of chair = 390 - 240 = Rs 150

For B, Table sold by B = $\frac{5}{4} \times 4x = 5x$

$$5x = 220$$

$$44 = x$$

Table sold by B = 220

Cost of chair = Rs 200

Cost of table = 500 - 200 = Rs 300

For C, Let the total chairs be y.

$$\text{Table} = y - 40$$

$$4x + 5x + y - 40 = 500$$

$$144 = y$$

$$\text{Table sold} = 104$$

$$\text{Cost of table} = 75\% \text{ of } 300 = \text{Rs } 225$$

$$\text{Chair cost} = \text{Rs } 75$$

$$\text{Chair sold by B} = \frac{1}{2} \times 144 = 72$$

Shops	Total chairs	Cost of each chair	Total tables	Cost of each table
A	220	150	176	240
B	72	200	220	300
C	144	75	104	225

$$\text{Required ratio} = 176+104: 220 = 280: 220 = 14:11$$

S83. Ans.(d)

Sol.

For A, Let the total number of chairs sold by A = 5x

So, total tables sold by A = 4x

$$\text{Cost of table} = \text{Rs } 240$$

$$\text{Cost of chair} = 390 - 240 = \text{Rs } 150$$

For B, Table sold by B = $\frac{5}{4} \times 4x = 5x$

$$5x = 220$$

$$44 = x$$

Table sold by B = 220

$$\text{Cost of chair} = \text{Rs } 200$$

$$\text{Cost of table} = 500 - 200 = \text{Rs } 300$$

For C, Let the total chairs be y .

$$\text{Table} = y - 40$$

$$4x + 5x + y - 40 = 500$$

$$144 = y$$

$$\text{Table sold} = 104$$

$$\text{Cost of table} = 75\% \text{ of } 300 = \text{Rs } 225$$

$$\text{Chair cost} = \text{Rs } 75$$

$$\text{Chair sold by B} = \frac{1}{2} \times 144 = 72$$

Shops	Total chairs	Cost of each chair	Total tables	Cost of each table
A	220	150	176	240
B	72	200	220	300
C	144	75	104	225

$$\text{Total selling price} = \frac{10}{100} \times 220 \times 150 \times \frac{120}{100} \times \frac{87.5}{100} = \text{Rs } 3465$$

S84. Ans.(d)

Sol.

For A, Let the total number of chairs sold by A = $5x$

So, total tables sold by A = $4x$

$$\text{Cost of table} = \text{Rs } 240$$

$$\text{Cost of chair} = 390 - 240 = \text{Rs } 150$$

For B, Table sold by B = $\frac{5}{4} \times 4x = 5x$

$$5x = 220$$

$$44 = x$$

Table sold by B = 220

$$\text{Cost of chair} = \text{Rs } 200$$

$$\text{Cost of table} = 500 - 200 = \text{Rs } 300$$

For C, Let the total chairs be y .

$$\text{Table} = y - 40$$

$$4x + 5x + y - 40 = 500$$

$$144 = y$$

$$\text{Table sold} = 104$$

$$\text{Cost of table} = 75\% \text{ of } 300 = \text{Rs } 225$$

$$\text{Chair cost} = \text{Rs } 75$$

$$\text{Chair sold by B} = \frac{1}{2} \times 144 = 72$$

Shops	Total chairs	Cost of each chair	Total tables	Cost of each table
A	220	150	176	240
B	72	200	220	300
C	144	75	104	225

$$x \times \frac{20}{100} \times 75 + (x - 10) \times 225 \times \frac{40}{100} = 675$$

$$15x + 90x - 900 = 675$$

$$105x = 1575$$

$$15 = x$$

S85. Ans.(a)

Sol.

For A, Let the total number of chairs sold by A = $5x$

So, total tables sold by A = $4x$

Cost of table = Rs 240

Cost of chair = $390 - 240 = \text{Rs } 150$

For B, Table sold by B = $\frac{5}{4} \times 4x = 5x$

$$5x = 220$$

$$44 = x$$

Table sold by B = 220

Cost of chair = Rs 200

Cost of table = $500 - 200 = \text{Rs } 300$

For C, Let the total chairs be y.

$$\text{Table} = y - 40$$

$$4x + 5x + y - 40 = 500$$

$$144 = y$$

$$\text{Table sold} = 104$$

$$\text{Cost of table} = 75\% \text{ of } 300 = \text{Rs } 225$$

$$\text{Chair cost} = \text{Rs } 75$$

$$\text{Chair sold by B} = \frac{1}{2} \times 144 = 72$$

Shops	Total chairs	Cost of each chair	Total tables	Cost of each table
A	220	150	176	240
B	72	200	220	300
C	144	75	104	225

$$\text{Required percentage} = \frac{176}{220} \times 100 = 80\%$$

S86. Ans.(d)

Sol.

Let the income be 100y.

ATQ,

$$100y \times \left(\frac{100-2x-10}{100}\right) \left(\frac{60}{100}\right) \left(\frac{50}{100}\right) = 10500$$

$$y \times (90 - 2x) = 35000$$

From (i):

$$500 \times (90 - 20) = 35000$$

$$35000 = 35000$$

From (ii)

$$700 \times (90 - 40) = 35000$$

$$35000 = 35000$$

From (iii)

$$700 \times (90 - 30) = 35000$$

$$700 \times 60 = 35000$$

$$42000 = 35000$$

False

Only (i) and (ii) satisfy.

S87. Ans.(a)

Sol.

Let the speed of boat in still water and speed of stream be x and y respectively.

$$\frac{180}{x+y} + \frac{120}{x-y} = 78 \dots(i)$$

And

$$\frac{60}{x-y} - 22.8 = \frac{72}{x+y} \dots(ii)$$

Solving (i) and (ii)

$$6 = x, y = 4$$

$$\text{Required answer} = 4 \times (6 - 4) = 8 \text{ km}$$

S88. Ans.(d)

Sol.

$$\text{Quantity of milk} = 240 \times \frac{8}{8+7} = 128 \text{ liter}$$

$$\text{Water} = 112 \text{ liter}$$

ATQ,

$$\text{New quantity of milk} = 128 - 30 \times \frac{8}{15} = 112 \text{ liters}$$

$$\text{New quantity of water} = 112 - 30 \times \frac{7}{15} + 30 = 128 \text{ liters}$$

$$\text{New ratio of milk to water} = \frac{112}{128} = 7:8$$

Again for 60 liters

$$\text{Quantity of milk} = 112 - 60 \times \frac{7}{15} = 84 \text{ liters}$$

$$\text{Quantity of water} = 126 - 60 \times \frac{8}{15} + 60 = 158 \text{ liters}$$

After mixing A and B

$$\text{Quantity of milk in the resultant mixture} = 84 + 260 \times \frac{8}{8+5} = 84 + 160 = 244 \text{ liters}$$

S89. Ans.(a)

Sol.

$$\text{Amount} = x + 500 + \frac{(x+500) \times 5 \times 10}{100} = \frac{3}{2}(x + 500)$$

ATQ,

$$\frac{3}{2}(x + 500) \times \frac{21}{100} = 3780$$

$$x = 11500$$

S90. Ans.(a)

Sol.

Let the present age of C, B and D be c, b and d respectively

ATQ,

$$b + d = 27$$

$$b = 27 - d \dots(1)$$

$$c = b + 11$$

using (1)

$$c = 27 - d + 11$$

$$c = 38 - d$$

Now,

$$\frac{c+8}{d+8} = \frac{25}{29}$$

$$\frac{38+8-d}{d+8} = \frac{25}{29}$$

$$(46 - d) \times 29 = 25 \times (d + 8)$$

$$1334 - 200 = 54d$$

$$d = 21$$

S91. Ans.(a)

Sol.

In school A,

$$\text{Total students} = 20\% \text{ of } 200 = 40$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 40 - 12 = 28$$

In school B,

$$\text{Total students} = 25\% \text{ of } 200 = 50$$

$$\text{Total boys} = 35\% \text{ of } 80 = 28$$

$$\text{Total girls} = 22$$

In school C,

$$\text{Total students} = 18\% \text{ of } 200 = 36$$

$$\text{Total boys} = 10\% \text{ of } 80 = 8$$

$$\text{Total girls} = 28$$



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In school D,

$$\text{Total students} = 15\% \text{ of } 200 = 30$$

$$\text{Total boys} = 25\% \text{ of } 80 = 20$$

$$\text{Total girls} = 10$$

In school E,

$$\text{Total students} = 22\% \text{ of } 200 = 44$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 32$$

Schools	Total students	Total girls	Total boys
A	40	28	12
B	50	22	28
C	36	28	8
D	30	10	20
E	44	32	12

Let px and y boys like music in D and E respectively.

And qx and $3y$ boys does not like music D and E respectively.

ATQ,

$$px + qx = 20 \dots (i)$$

$$px + y = 21 \dots (ii)$$

$$y + 3y = 12$$

$$3 = y \dots (iii)$$

$$px = 21 - 3 = 18$$

$$qx = 20 - 18 = 2$$

$$px : qx = 18 : 2 = 9 : 1$$

$$\text{Required answer} = 9$$

S92. Ans.(c)

Sol.

In school A,

$$\text{Total students} = 20\% \text{ of } 200 = 40$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 40 - 12 = 28$$

In school B,

$$\text{Total students} = 25\% \text{ of } 200 = 50$$

$$\text{Total boys} = 35\% \text{ of } 80 = 28$$

$$\text{Total girls} = 22$$

In school C,

Total students = 18% of 200 = 36

Total boys = 10% of 80 = 8

Total girls = 28

In school D,

Total students = 15% of 200 = 30

Total boys = 25% of 80 = 20

Total girls = 10

In school E,

Total students = 22% of 200 = 44

Total boys = 15% of 80 = 12

Total girls = 32

Schools	Total students	Total girls	Total boys
A	40	28	12
B	50	22	28
C	36	28	8
D	30	10	20
E	44	32	12

Degree of C = $\frac{360}{100} \times 10 = 36$ degree

Only (i) and (iii) follows.

S93. Ans.(d)

Sol.

In school A,

Total students = 20% of 200 = 40

Total boys = 15% of 80 = 12

Total girls = 40 - 12 = 28

In school B,

Total students = 25% of 200 = 50

Total boys = 35% of 80 = 28

Total girls = 22

In school C,

Total students = 18% of 200 = 36

Total boys = 10% of 80 = 8

Total girls = 28

In school D,

Total students = 15% of 200 = 30

Total boys = 25% of 80 = 20

Total girls = 10

In school E,

Total students = 22% of 200 = 44

Total boys = 15% of 80 = 12

Total girls = 32

Schools	Total students	Total girls	Total boys
A	40	28	12
B	50	22	28
C	36	28	8
D	30	10	20
E	44	32	12

Required ratio = $(12+28):28 = 40:28 = 10:7$

S94. Ans.(e)

Sol.

In school A,

Total students = 20% of 200 = 40

Total boys = 15% of 80 = 12

Total girls = $40 - 12 = 28$

In school B,

Total students = 25% of 200 = 50

Total boys = 35% of 80 = 28

Total girls = 22

In school C,

Total students = 18% of 200 = 36

Total boys = 10% of 80 = 8

Total girls = 28

In school D,

$$\text{Total students} = 15\% \text{ of } 200 = 30$$

$$\text{Total boys} = 25\% \text{ of } 80 = 20$$

$$\text{Total girls} = 10$$

In school E,

$$\text{Total students} = 22\% \text{ of } 200 = 44$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 32$$

Schools	Total students	Total girls	Total boys
A	40	28	12
B	50	22	28
C	36	28	8
D	30	10	20
E	44	32	12

$$\text{Total students in X} = 120\% \text{ of } 30 = 36$$

Let the boys be b

$$\text{So girls in X} = b + 8$$

$$36 = b + b + 8$$

$$28 = 2b$$

$$14 = b$$

$$\text{Total girls} = 22$$

S95. Ans.(b)

Sol.

In school A,

$$\text{Total students} = 20\% \text{ of } 200 = 40$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 40 - 12 = 28$$

In school B,

$$\text{Total students} = 25\% \text{ of } 200 = 50$$

$$\text{Total boys} = 35\% \text{ of } 80 = 28$$

$$\text{Total girls} = 22$$

In school C,

$$\text{Total students} = 18\% \text{ of } 200 = 36$$

$$\text{Total boys} = 10\% \text{ of } 80 = 8$$

$$\text{Total girls} = 28$$

In school D,

$$\text{Total students} = 15\% \text{ of } 200 = 30$$

$$\text{Total boys} = 25\% \text{ of } 80 = 20$$

$$\text{Total girls} = 10$$

In school E,

$$\text{Total students} = 22\% \text{ of } 200 = 44$$

$$\text{Total boys} = 15\% \text{ of } 80 = 12$$

$$\text{Total girls} = 32$$

Schools	Total students	Total girls	Total boys
A	40	28	12
B	50	22	28
C	36	28	8
D	30	10	20
E	44	32	12

Let the students who plays Outdoor games in B and students who play indoor games in E is x .

	B		E	
Indoor		outdoor	Indoor	outdoor
$50 - x$		x	x	$44 - x$

ATQ,

$$\frac{50-x}{44-x} = \frac{5}{4}$$

$$x = 20$$

$$\text{Required answer} = \frac{24}{30+20} \times 100 = 48\%$$

S96. Ans.(d)

Sol.

Let the speed of boat in still water and speed of stream be x and y km/hr.

ATQ,

$$\frac{36}{x+y} = \frac{80}{100} \times \frac{15}{x-y}$$

$$\frac{x}{y} = \frac{2}{1}$$

$$x + y - (x - y) = 6$$

$$y = 3 \text{ km/hr}$$

$$\text{So, } x = 6 \text{ km/hr}$$

$$\text{Required distance} = \frac{25}{6} \times 6 = 25 \text{ km}$$

S97. Ans.(e)

Sol.

$$\text{I. } x^2 + 10x - 75 = 0$$

$$x^2 + 15x - 5x - 75 = 0$$

$$x(x + 15) - 5(x + 15) = 0$$

$$(x - 5)(x + 15) = 0$$

$$x = 5, -15$$

$$\text{II. } y^2 + 13y + 22 = 0$$

$$y^2 + 11y + 2y + 22 = 0$$

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

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

$$y = -2, -11$$

So, no relation can be established between x and y.

S98. Ans.(a)

Sol.

$$\text{I. } y^2 + 16y + 55 = 0$$

$$y^2 + 11y + 5y + 55 = 0$$

$$y(y + 11) + 5(y + 11) = 0$$

$$(y + 5)(y + 11) = 0$$

$$y = -5, -11$$

$$\text{II. } 2x^2 - 3x - 14 = 0$$

$$2x^2 - 7x + 4x - 14 = 0$$

$$x(2x - 7) + 2(2x - 7) = 0$$

$$(x + 2)(2x - 7) = 0$$

$$x = -2, \frac{7}{2}$$

So, $x > y$

S99. Ans.(c)

Sol.

$$I. 3x^2 - 5x - 28 = 0$$

$$3x^2 - 12x + 7x - 28 = 0$$

$$3x(x - 4) + 7(x - 4) = 0$$

$$(3x + 7)(x - 4) = 0$$

$$x = -\frac{7}{3}, 4$$

$$II. y^2 - 10y + 25 = 0$$

$$y^2 - 5y - 5y + 25 = 0$$

$$y(y - 5) - 5(y - 5) = 0$$

$$(y - 5)(y - 5) = 0$$

$$y = 5, 5$$

So, $x < y$

S100. Ans.(e)

Sol.

$$I. x^2 + 7x - 18 = 0$$

$$x^2 + 9x - 2x - 18 = 0$$

$$x(x+9) - 2(x+9) = 0$$

$$(x+9)(x-2) = 0$$

$$x = -9, 2$$

$$II. y^2 - y - 42 = 0$$

$$y^2 - 7y + 6y - 42 = 0$$

$$(y + 6)(y - 7) = 0$$

$$y = -6, 7$$

So, no relation can be established between x and y .

S101. Ans.(a)

Sol.

$$\text{Items manufacture by D} = 765 \times 2 - 810 = 720$$

$$\text{Items sold by D} = 720 - 240 = 480$$

$$1920 = p + y$$

$$480 + p = 1280$$

$$800 = p$$

$$1120 = y$$

$$1.65p - 320 = z - y$$

$$1320 - 320 = z - 1120$$

$$2120 = z$$

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	800	1120
B	1320	1000	320
C	810	600	210
D	720	480	240

$$\text{Total items manufactured by E} = 50\% \text{ of } \frac{1920+1320}{2} = 810$$

$$\text{Items sold by E} = \frac{2120-1120}{2} = 500$$

$$\text{Items unsold} = 810 - 500 = 310$$

S102. Ans.(d)

Sol.

$$\text{Items manufacture by D} = 765 \times 2 - 810 = 720$$

$$\text{Items sold by D} = 720 - 240 = 480$$

$$1920 = p + y$$

$$480 + p = 1280$$

$$800 = p$$

$$1120 = y$$

$$1.65p - 320 = z - y$$

$$1320 - 320 = z - 1120$$

$$2120 = z$$

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	800	1120
B	1320	1000	320
C	810	600	210
D	720	480	240

$$X = \frac{2880}{4} = 720$$

S103. Ans.(d)**Sol.**

$$\text{Items manufacture by D} = 765 \times 2 - 810 = 720$$

$$\text{Items sold by D} = 720 - 240 = 480$$

$$1920 = p + y$$

$$480 + p = 1280$$

$$800 = p$$

$$1120 = y$$

$$1.65p - 320 = z - y$$

$$1320 - 320 = z - 1120$$

$$2120 = z$$

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	800	1120
B	1320	1000	320
C	810	600	210
D	720	480	240

$$\frac{480}{720} \times 100 = 66.66\% = x\%$$

S104. Ans.(a)**Sol.**

$$\text{Items manufacture by D} = 765 \times 2 - 810 = 720$$

$$\text{Items sold by D} = 720 - 240 = 480$$

$$1920 = p + y$$

$$480 + p = 1280$$

$$800 = p$$

$$1120 = y$$

$$1.65p - 320 = z - y$$

$$1320 - 320 = z - 1120$$

$$2120 = z$$

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	800	1120
B	1320	1000	320
C	810	600	210
D	720	480	240

$$\text{Sold items} = 600 + 112 = 712$$

$$\text{Unsold items of C} = 810 - 712 = 98$$

$$\text{Required average} = \frac{1120+320+98+240}{4} = 444.5$$

S105. Ans.(a)

Sol.

$$\text{Items manufacture by D} = 765 \times 2 - 810 = 720$$

$$\text{Items sold by D} = 720 - 240 = 480$$

$$1920 = p + y$$

$$480 + p = 1280$$

$$800 = p$$

$$1120 = y$$

$$1.65p - 320 = z - y$$

$$1320 - 320 = z - 1120$$

$$2120 = z$$

Shops	Total items manufactured	Total sold items	Total unsold items
A	1920	800	1120
B	1320	1000	320
C	810	600	210
D	720	480	240

$$\text{Total sold items} = 600 + 480 + 120 = 1200$$

$$\text{Required answer} = \frac{1200}{800} \times 100 = 150\%$$

S106. Ans.(d)

Sol.

ATQ,

$$\frac{x+1800}{x-1200} = \frac{8}{11-8} = \frac{8}{3}$$

$$\text{Rs } 3000 = x$$

S107. Ans.(c)

Sol.

$$\text{Set A} = x-4, x-2, x, x+2, x+4$$

$$5x = 90$$

$$18 = x$$

$$\text{Set B} = 7m, \frac{7m+9m}{2}, 9m = 7m, 8m, 9m$$

A

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$$7m + 2 = 8m = 9m - 2$$

$$2 = m$$

$$\text{Second smallest number of set C} = 7m + x - 4 = 28$$

$$\text{Required answer} = 31$$

S108. Ans.(d)

Sol.

$$x + x + 25 + x + 50 + x + 75 + x + 100 = 5 \times 620 \times \frac{125}{100}$$

$$250 + 5x = 3875$$

$$x = 725$$

$$\text{Required answer} = 725 + 100 - 620 = \text{Rs } 205$$

S109. Ans.(c)

Sol.

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

$$y^2 - 5y - 6y + 30 = 0$$

$$y(y - 5) - 6(y - 5) = 0$$

$$y = 6, 5$$

$$(x + 45 - mn)^2 = 5x + Q \text{ put } x = -10 \text{ and } mn = 30$$

$$(x + 45 - 30)^2 = 5x + Q \text{ put } x = -10$$

$$25 = -50 + Q$$

$$75 = Q$$

S110. Ans.(c)

Sol.

$$\text{I. } x^2 - 7\sqrt{3}x - 54 = 0$$

$$\Rightarrow x^2 - 9\sqrt{3}x + 2\sqrt{3}x - 54 = 0$$

$$\Rightarrow (x - 9\sqrt{3})(x + 2\sqrt{3}) = 0$$

$$x = 9\sqrt{3} \text{ or } -2\sqrt{3}$$

$$\text{II. } y^2 + \sqrt{2}y - 24 = 0$$

$$\Rightarrow y^2 + 4\sqrt{2}y - 3\sqrt{2}y - 24 = 0$$

$$\Rightarrow y(y + 4\sqrt{2}) - 3\sqrt{2}(y + 4\sqrt{2}) = 0$$

$$\Rightarrow (y - 3\sqrt{2})(y + 4\sqrt{2}) = 0$$

$$y = 3\sqrt{2} \text{ or } -4\sqrt{2}$$

so, no relation

S111. Ans.(c)

Sol.

$$I. x^3 + x^2 + 4x - 63 = x^3 - 3x^2$$

$$4x^2 + 4x - 63 = 0$$

$$-4.5, 3.5 = x$$

$$II. y^3 + 4y^2 - 77y = 0$$

$$y(y^2 + 4y - 77) = 0$$

$$0, -11, 7 = y$$

S112. Ans.(a)

Sol.

$$LCM \times HCF = ab$$

$$88 = ab$$

$$8 = a, 11 = b$$

$$I: x^2 - ax + 16 = 0$$

$$x^2 - 8x + 16 = 0$$

$$x = 4, 4$$

$$II: y^2 + (7 + b)y + 72 = 0$$

$$y^2 + (7 + 11)y + 72 = 0$$

$$y = -12, -6$$

S113. Ans.(c)

Sol.

$$a = 3b$$

$$\sqrt{9b^2 + b^2} = 4\sqrt{10}$$

$$b = 4$$

$$12 = a$$

$$I: x^2 - (a + b)x + 39 = 0$$

$$x^2 - 16x + 39 = 0$$

$$x = 13, 3$$

$$II: y^2 - (a + 2b)y + 75 = 0$$

$$y^2 - 20y + 75 = 0$$

$$15, 5 = y$$

No relation

S114. Ans.(e)

Sol.

Let the students in A and B be $9x$ and $11x$

$$\frac{9x + 10}{11x} = \frac{14}{11}$$

$$5x = 10$$

$$x = 2$$

Statement I: $11x - 9x = 4$

Statement II:

$$\text{Girls in B} = \frac{4}{11} \times 22 = 8$$

S115. Ans.(d)

Sol.

Statement I: let the quantity of water and milk be $9x$ and $16x$ respectively.

ATQ,

$$9x + 9x - 16x = 8$$

$$18x - 16x = 8$$

$$2x = 8$$

$$4 = x$$

Quantity of water = 36 liter

Statement II:

$$\frac{16x + 4}{9x - 2} = \frac{2}{1}$$

$$x = 4$$

Quantity of water = 36 liters

S116. Ans.(a)

Sol.

Pattern of series -

$$12 \times 16 = 192$$

$$192 \times 8 = 1536$$

$$1536 \times 4 = 6144$$

$$6144 \times 2 = 12288$$

$$12288 \times 1 = 12288$$

S117. Ans.(a)

Sol.

Pattern of series -

$$(12^3 - 2) = 1726$$

$$(10^3 - 4) = 996$$

$$(8^3 - 6) = 506$$

$$(6^3 - 8) = 208$$

$$(4^3 - 10) = 54$$

$$(2^3 - 12) = -4$$

S118. Ans.(c)

Sol.

Pattern of series -

$$1296 - 1296 = 0$$

$$0 + 648 = 648$$

$$648 - 324 = 324$$

$$324 + 162 = 486$$

$$486 - 81 = 405$$

S119. Ans.(e)

Sol.

Pattern of series -

$$8 \times 0.5 + 4 = 8$$

$$8 \times 1.5 + 4 = 16$$

$$16 \times 2.5 + 4 = 44$$

$$44 \times 3.5 + 4 = 158$$

$$158 \times 4.5 + 4 = 715$$

S120. Ans.(a)

Sol.

Pattern of series -

$$12 \times 6 - 2 = 70$$

$$70 \times 5 - 4 = 346$$

$$346 \times 4 - 6 = 1378$$

$$1378 \times 3 - 8 = 4126$$

$$4126 \times 2 - 10 = 8242$$



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