SBI PO Prelims Memory Based Paper (Held On: 24 March 2025 Shift 2) (Previous Year Paper)

SBI Probationary Officer (PO) • 2025 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blanks out of the given alternatives.

The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace __ (1). Designed with a distinctive flying wing configuration, its primary mission is to (2) through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive (3) of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational (4) is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex (5). It remains a symbol of technological __ (6) in modern aerial warfare.

Q1. What will come in blank 1?

- **(a)** engineering
- **(b)** art
- **(c)** design
- **(d)** machinery
- **(e)** manufacturing

Q2. What will come in blank 2?

- **(a)** penetrate
- **(b)** avoid
- **(c)** fly
- **(d)** attack
- **(e)** hover

Q3. What will come in blank 3?

- **(a)** load
- **(b)** quantity
- **(c)** arsenal
- **(d)** payload
- **(e)** collection

Q4. What will come in blank 4?

- **(a)** range
- **(b)** speed
- **(c)** efficiency
- **(d)** flexibility
- **(e)** endurance

Q5. What will come in blank 5?

(a) mechanics
(b) structure
(c) systems
(d) blueprint
(e) purpose

Q6. What will come in blank 6?

(a) progress
(b) prowess
(c) achievement
(d) sophistication
(e) novel

Q7. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Neither students (A)/ nor their teacher (B)/ are participating (C)/ in this concert. (D)/ No error /(E)

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

Q8. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Sushant is the (A)/ best artist of the (B)/ time but, (C)/ unfortunately, least recognized (D)/. No error /(E)

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

Q9. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

If I had got (A)/ a gold medal, (B)/ I would (C)/ have been happy (D)/. No error /(E)

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

Q10. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

The talks ended (A)/ abruptly when (B)/ one of the delegations (C)/ walked out on protest. (D)/ No error /(E)

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

Q11. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Vineet's cat seems (A)/ to be very aggressive, (B)/ otherwise it (C)/ is harmless. (D)/ No error /(E)

(a) A

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(b) B
(c) C
(d) D
(e) E

Q12. Directions: In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

Concerned parents (A)/ have complained (B)/ at the (C)/ dangerous playground. (D)/ No error /(E)

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

Q13. Evaluate the following word, accompanied by three sentences containing it. Determine the sentence(s) that accurately convey the meaning of the given word.

Solidarity

A. The workers joined in solidarity to demand fair wages and better working conditions.

B. The solidarity of the bricks and mortar ensured that the building would withstand any storms.

C. During the concert, the band's solidarity was visible as they performed in perfect harmony.

(a) Only A
(b) Both A & C
(c) Both B & C
(d) All A, B & C
(e) None of these

Q14. Direction: Evaluate the following word, accompanied by three sentences containing it. Determine the sentence(s) that accurately convey the meaning of the given word.

Comprehensive

A. The researcher provided a comprehensive overview of the topic, including all recent studies.

B. The test was designed to be comprehensive, covering a wide range of subjects.

C. The artist made a comprehensive mistake by using the wrong colour palette in his painting.

(a) Only A
(b) Both A & B
(c) Only C
(d) All A, B & C
(e) None of these

Q15. Direction: Evaluate the following word, accompanied by three sentences containing it. Determine the sentence(s) that accurately convey the meaning of the given word.

Drought

A. The farmer was relieved to see the rain after a long drought.

B. There was a drought of laughter at the event, making it dull and monotonous.

C. During the drought, the rivers overflowed with water.

(a) Only A
(b) Both A & B
(c) Only C
(d) All A, B & C
(e) None of these

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Q16. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

Constant (A) time pressure contributes to declining, (B) anxiety, burnout, and stress (C) mental health across different age groups. (D)

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

Q17. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

Opportunities (A) often experience greater time poverty due to unpaid domestic (B) labour, reducing Women (C) for rest, career growth (D), and self-development.

(a) A-B
(b) B-C
(c) A-C and B-D
(d) A-C
(e) No interchange required

Q18. Directions: In the following sentence, four words given in bold are marked as A, B, C, and D, which are possible pairs to be interchanged. Choose the pair(s) of words that need to be interchanged to make the sentence grammatically correct and meaningful. If no interchange is required, mark option 5 i.e., "No interchange required" as your answer.

Time (A) inequality exists because multiple (B) individuals can buy convenience (C), while others spend hours commuting, working wealthier (D) jobs, or waiting for services.

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

Q19. The given question has two blanks indicating that something has been omitted. Choose the words from the given options that could fit in the blank correctly.

Researchers also _____ that the vaccine was able to_____ normal blood sugar levels without using insulin.

(a) discovered, decayed
(b) surrender, delighted
(c) experimented, desolate
(d) explored, dislodged
(e) found, restore

Q20. The given question has two blanks indicating that something has been omitted. Choose the words from the given options that could fit in the blank correctly.

Her__ is easy and natural, and it is__ because of its frankness and evident sincerity.

(a) looks, charms
(b) behavior, attractive
(c) nature, natural
(d) make-up, shining
(e) mind, mindful

Q21. The given question has two blanks indicating that something has been omitted. Choose the words from the given options that could fit in the blank correctly.

Body _____ is a form of communication without using _____.

(a) language, words

(b) speech, words
(c) dialect, music
(d) verbal, songs
(e) vocabulary, silence

Q22. Which of the phrases given in the options should replace the word phrase that is underlined in the sentence to make it grammatically correct? If the sentence is correct as it is and no correction is required, select 'No correction required' as the answer.

They, we and you will leave for the overseas trip, tomorrow.

(a) They, you and we
(b) We, you and they
(c) We, they and you
(d) You, they and we
(e) No correction required

Q23. Which of the phrases given in the options should replace the word phrase that is underlined in the sentence to make it grammatically correct? If the sentence is correct as it is and no correction is required, select 'No correction required' as the answer.

She deserves an equal raise as her male colleagues, after all, she is as competent, if not more competent than them.

(a) as competent than
(b) most competent
(c) as competent as
(d) as competent to
(e) No correction required

Q24. Which of the phrases given in the options should replace the word phrase that is underlined in the sentence to make it grammatically correct? If the sentence is correct as it is and no correction is required, select 'No correction required' as the answer.

The Prime minister and chairperson of NITI Aayog are in the city for a conference.

(a) is in the
(b) were in the
(c) been in the
(d) being in the
(e) No correction required

Q25. Which of the phrases given in the options should replace the word phrase that is underlined in the sentence to make it grammatically correct? If the sentence is correct as it is and no correction is required, select 'No correction required' as the answer.

After a lengthy legal battle, the two brothers agreed to divide the property among themselves.

(a) beside themselves
(b) besides themselves
(c) by themselves
(d) between themselves
(e) No correction required

Q26. Which of the phrases given in the options should replace the word phrase that is underlined in the sentence to make it grammatically correct? If the sentence is correct as it is and no correction is required, select 'No correction required' as the answer.

Rajiv have been to Goa last year.

(a) had been
(b) has been
(c) will have been
(d) shall have been
(e) No correction required

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Directions

Directions: In the following question, the sentences of a paragraph are jumbled. They are given as A, B, C, D, and E. Identify the correct order of the sentences to make a meaningful paragraph and answer the following questions.

A: By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

B: Stem cells are unique because of their ability to develop into many different cell types in the body.

C: Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

D: This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

E: Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

Q27. Which of these should be the FIRST sentence in the paragraph?

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

Q28. Which of these should be the SECOND sentence in the paragraph?

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

Q29. Which of these should be the THIRD sentence in the paragraph?

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

Q30. Which of these should be the FOURTH sentence in the paragraph?

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

Q31. Which of these should be the FIFTH sentence in the paragraph?

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

Directions

Directions: Read the given passage carefully to answer the following questions. Each question will have five alternatives as its answer. Choose the correct option as your answer.

In the modern world, urbanization has become a defining feature of human society. As of today, more than half of the global population resides in urban areas, and this trend is expected to continue in the coming decades. Urbanization presents both opportunities and challenges, shaping the economic, social, and environmental landscapes of cities around the world. One of the primary drivers of urbanization is the search for better economic opportunities. Cities offer a concentration of jobs, services, and amenities that are often unavailable in rural areas. This migration to urban centres can lead to economic growth and development, as well-established infrastructure and diverse markets attract businesses and investments. Moreover, cities tend to

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foster innovation and cultural exchange, creating dynamic environments where ideas and creativity flourish. However, the rapid pace of urbanization also poses significant challenges. One of the most pressing issues is the strain on infrastructure and services. Many cities, particularly in developing countries, struggle to accommodate the influx of new residents. This can result in overcrowded housing, inadequate public transportation, and insufficient access to basic services such as healthcare and education. Informal settlements, commonly known as slums, often emerge as a consequence, where living conditions can be dire and unsanitary. Environmental degradation is another critical issue associated with urbanization. The concentration of population and industry in cities leads to _____. Air and water quality are often compromised, impacting the health and well-being of urban residents. Furthermore, the expansion of urban areas frequently encroaches on natural habitats, contributing to biodiversity loss and altering ecosystems. Despite these challenges, urbanization can be managed in ways that promote sustainable and equitable development. One approach is through the implementation of smart city technologies. These technologies leverage data and connectivity to improve the efficiency of urban services, from traffic management to energy distribution. For instance, smart grids can optimize electricity usage, while intelligent transportation systems can reduce congestion and emissions. Moreover, inclusive urban planning is crucial for creating cities that cater to the needs of all residents. This includes developing affordable housing, enhancing public transportation networks, and ensuring that essential services are accessible to everyone, regardless of socioeconomic status. Green spaces and recreational areas should also be integrated into city planning to enhance the quality of life and promote environmental sustainability. Community engagement and participation are essential components of successful urban development. By involving residents in the planning and decision-making processes, cities can better address the unique needs and aspirations of their communities. This fosters a sense of ownership and collaboration, leading to more resilient and vibrant urban environments. In conclusion, while urbanization presents significant challenges, it also offers opportunities for growth and innovation. Through thoughtful planning, technological innovation, and community involvement, cities can navigate the complexities of urbanization and create sustainable, inclusive, and thriving urban spaces for future generations.

Q32. According to the passage, what is one approach to managing urbanization to promote sustainable and equitable development?

(a) Limiting migration to cities
(b) Implementing smart city technologies
(c) Reducing the number of businesses in urban areas
(d) Expanding rural infrastructure
(e) Increasing industrial activities within city limits

Q33. Which of the following has not been cited as a challenge posed by urbanization according to the passage?

(a) Strain on infrastructure and services
(b) Overcrowded housing
(c) Inadequate public transportation
(d) Abundance of natural habitats within cities
(e) Environmental degradation

Q34. Which of the following can be inferred from the passage about smart city technologies?

A) They have no impact on the environmental sustainability of cities.
B) They can optimize urban services like traffic management and electricity usage.
C) They are irrelevant to inclusive urban planning.

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

Q35. Which of the following best states the central idea of the passage?

(a) Urbanization is primarily a problem for developing countries.
(b) Urbanization should be halted to prevent negative consequences.
(c) Though urbanization poses challenges, it also offers opportunities that can be managed for positive outcomes.
(d) The main issue with urbanization is the loss of cultural identity in cities.
(e) Innovation and cultural exchange are the most significant benefits of urbanization.

Q36. According to the passage, which of the following statements is correct?

A) Informal settlements often emerge as a consequence of rapid urbanization.

B) Air and water quality are improved by increased urbanization.

C) Community engagement does not play a role in urban development.

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

Q37. According to the passage, which of the following statements is incorrect?

A) Cities offer a concentration of jobs and services often unavailable in rural areas.

B) Smart city technologies have no impact on public transportation systems.

C) Environmental degradation is a significant issue associated with urbanization.

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

Q38. What will fit in the blank taken from the passage: 'The concentration of population and industry in cities leads to _____'?

(a) Improved community engagement
(b) Increased pollution, waste generation, and resource consumption
(c) Better access to healthcare services
(d) Enhanced cultural exchange
(e) Reduced biodiversity loss

Q39. Which of the following words is similar in meaning to "accommodate" as used in the passage?

(a) Reject
(b) Evict
(c) House
(d) Prevent
(e) Neglect

Q40. Which of the following words is opposite in meaning to "inclusive" as used in the passage?

(a) Comprehensive
(b) Exclusive
(c) Expansive
(d) Equitable
(e) Accessible

QUANTITATIVE APTITUDE

Directions

Five persons A, B, C, D and E have different monthly incomes and expenditures. The difference between the income and expenditure of each person is defined as his/her savings. The expenditure of A is Rs. 48,000 and his income is 25% more than his expenditure. The income of B is Rs. 12,000 more than that of A, while his expenditure is 80% of his income. The income of C is 20% less than that of B and his savings are Rs. 18,000. The income of D is Rs. 15,000 more than that of C, while his expenditure is 75% of his income. The income of E is 20% more than that of D, and his expenditure is Rs. 12,000 more than the expenditure of A. None of the incomes or expenditures is the same.

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Q41. If the income of E increases by 10% and the expenditure of B decreases by 10%, then the difference between the new savings of E and the new savings of B is

(a) Rs. 14,832
(b) Rs. 15,168
(c) Rs. 15,672
(d) Rs. 16,008
(e) Rs. 16,344

Q42. If the total income of B and D together is considered as 100%, then the expenditure of C forms approximately what percent of it?

(a) 25%
(b) 26%
(c) 27%
(d) 28%
(e) 30%

Q43. The income of E is what percent more than the average expenditure of A, B and D?

(a) 59%
(b) 61%
(c) 63%
(d) 65%
(e) 67%

Q44. If the expenditure of C increases by 20% while his income remains unchanged, then the new savings of C are approximately what percent less than the savings of B?

(a) 25%
(b) 28%
(c) 30%
(d) 32%
(e) 35%

Q45. The total savings of A, C and D together is what percent of the total expenditure of B and E together?

(a) 38%
(b) 39%
(c) 41%
(d) 43%
(e) 45%

Q46. In the following number series, a wrong number is given. Find out the wrong number.

5, 12, 39, 160, 805, 4826

(a) 5
(b) 39
(c) 160
(d) 12
(e) 4826

Q47. In each of the following number series, the wrong number is given, find out that number.

14, 28, 56, 98, 196, 224

(a) 28
(b) 56
(c) 98
(d) 224
(e) 196

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Q48. In the following number series, a wrong number is given. Find out the wrong number.

31, 102, 165, 256, 345, 446, 562

(a) 345
(b) 31
(c) 102
(d) 165
(e) 256

Q49. Time taken by A is 25% more than the time taken by B to complete the work. Time taken by C is x% of the time taken by B to complete the work. If B and C alone complete the work in 20/3 days. A alone can complete the work in 25 days. Find the value of x.

(a) 45%
(b) 40%
(c) 50%
(d) 75%
(e) 80%

Q50. If the age of Sudhir is 20% of his Mother's age and 10% of his father's age and the age of his mother after four years will be 39 years then find the sum of Sudhir and his father's present age.

(a) 77 years
(b) 70 years
(c) 80 years
(d) 62 years
(e) 68 years

Directions

The following bar graph shows the number of mobile phones (in lakh units) manufactured by India and the combined production of India and China during five different years.

[Figure: see this question online]

Q51. The total mobile phones manufactured by India for Companies A to E together are approximately what percent less than the total mobile phones manufactured by China for the same companies?

(a) 22.5%
(b) 24.4%
(c) 26.8%
(d) 28.6%
(e) 30.2%

Q52. What is the ratio of the mobile phones manufactured by China for Company C to the total mobile phones manufactured (India + China) for Company B?

(a) 2:3
(b) 3:5
(c) 4:7
(d) 5:8
(e) 2:5

Q53. If 30% of the mobile phones manufactured by China for Company E and 20% of those manufactured by India for Company D are premium phones, then the number of premium phones manufactured by China for Company E is approximately what percent more than those manufactured by India for Company D?

(a) 121.4%
(b) 128.6%
(c) 135.7%
(d) 142.9%
(e) 150%

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Q54. The mobile phones manufactured by China for Companies A and D together exceed the mobile phones manufactured by India for Companies B and C together by approximately what percent?

(a) 32.5%
(b) 36.4%
(c) 40%
(d) 42.5%
(e) 45%

Q55. The mobile phones manufactured by China for Company B are approximately what percent of the average total mobile phones manufactured (India + China) for Companies C, D and E together?

(a) 38%
(b) 41%
(c) 43%
(d) 45%
(e) 48%

Q56. Person A spends 15% of his salary on the house rent and 40% of the remaining were spent on groceries, from the remaining amount he spent 1/3rd to the other expenses If the remaining amount with him Rs. 8500. Find the amount spent in other expenses

(a) Rs. 5550
(b) Rs. 4750
(c) Rs. 4250
(d) Rs. 5250
(e) Rs. 4150

Q57. Person A has invested an amount of Rs. 6000 at x% per annum SI for 3 years in scheme I and the same amount has been invested at 10% per annum CI for 2 years in scheme II. The interest earned on scheme I is Rs. 900 more than scheme II. Find the value of x.

(a) 5
(b) 9
(c) 8
(d) 12
(e) 10

Q58. The ratio of the quantity of rice and wheat is 5: 3. If 1/4th of the rice and half of the wheat are mixed, then the difference between the quantity of wheat and rice mixed is 10 kg. 30% of the initial quantity of rice and y% of the initial quantity of wheat is 180 kg. FInd the value of y.

(a) 30
(b) 20
(c) 100
(d) 75
(e) 50

Q59. Dolly is a careless child so, she losses an Ace Spade out of a deck of 52 cards. Now what is the probability of sunny getting a black card from the remaining pack.

(a) 1/13
(b) 25/52
(c) 25/51
(d) 1/2
(e) 26/51

Q60. A can complete a work in x days and B can complete the same work in (x + 5) days. The efficiency of C is 25% less than that of B and he takes 12 days to complete the work. Find the time taken by all the three working together to complete the work.

(a) 5 (1/2) days

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(b) 4 (3/4) days
(c) 3 (1/2) days
(d) 2 (1/4) days
(e) 3 (1/3) days

Directions

Study the following information carefully and answer the questions given below.

The pie chart shows the percentage distribution of the total number of online applications received by five different companies A, B, C, D and E.

Total number of applications = 48,000

[Figure: see this question online]

Q61. Applications received by Company E are how many more than those received by A and B together?

(a) 840
(b) 900
(c) 960
(d) 1080
(e) 1200

Q62. If applications received by Company C increased by 20%, then the new number of applications of Company C would be approximately what percent of the applications received by Company E?

(a) 88.89%
(b) 90.74%
(c) 93.33%
(d) 95.56%
(e) 97.78%

Q63. If 40% of the applications received by Company B and 60% of the applications received by Company D were shortlisted, then shortlisted applications of Company D exceed those of Company B by

(a) 2688
(b) 2976
(c) 3168
(d) 3456
(e) 3744

Q64. Applications received by C and E together are what percent of the applications received by the remaining companies together?

(a) 88.46%
(b) 90.38%
(c) 92.31%
(d) 94.23%
(e) 96.15%

Q65. The number of applications received by Company D is approximately what percent more than those received by Company A?

(a) 130%
(b) 140%
(c) 145%
(d) 150%
(e) 155%

Q66. A and B two persons entered into the partnership with the investment of Rs. 3500 and Rs. 4000 respectively. After x months A left the business and after another 2 months B left the business and C joined with the investment of Rs. 5000. At the end of the year the ratio of their profit is 14: 24: 30. Find the value of x.

(a) 6 months

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(b) 5 months
(c) 3 months
(d) 4 months
(e) 2 months

Q67. The time taken by train A to cross the standing man at the speed of 15 m/s is 4 seconds less than train B crossing the same man at 20 m/s. If the lengths of train B is 180 m more than the lengths of train A. Find the sum of the lengths of train A and train B.

(a) 520m
(b) 720m
(c) 780m
(d) 640m
(e) 450m

Q68. A shopkeeper provides two successive discount of 10% and 20% on a good he sells having marked price of Rs. 10000. What will be his change in selling price if he instead provides two successive discounts of 15% each?

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

Q69. Directions: Read the following statements and find out whether they are sufficient or not to answer the given question.

Find the ratio of the volume of a cylinder to that of a cone.

Statement I: The radius of the cylinder and that of the cone are in the ratio 1 : 2.

Statement II: The height of the cylinder is 21 cm and the height of the cone is 7 cm less than that of the cylinder.

Statement III: The sum of their heights is 35 cm.

(a) Both statements II and III are required to answer the question.
(b) Both statements I and II are required to answer the question.
(c) Both Statements I and III are required to answer the question.
(d) All the three statements are not sufficient to answer.
(e) Any two of the three statements are sufficient to answer.

Q70. DIRECTIONS for the question: The question below consist of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and mark

What is the speed of the boat in still water? (in kmph)

I. The boat takes total time of 4 hours to travel 14 km upstream and 35 km downstream together.

II. The boat takes total time of 5 hours to travel 29 km upstream and 24 km downstream together.

(a) if the data in statement (I) alone is sufficient to answer the question
(b) if the data in statement (II) alone is sufficient to answer the question
(c) if the data in both the statements together are needed
(d) if either statement (I) alone or statement (II) alone suffices to answer the question
(e) if even by combining both the statements the answer can not be found

REASONING ABILITY

Directions

Directions: Study the following information carefully and answer the questions given below.

Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

S sits third to the left of C but does not sit at the ends. Only two persons sit between C and O. Q sits third to the right of Z. Z sits adjacent to S but not sitting at the left end. Only one person sits between Q and L, who doesn't sit adjacent to O. The number of

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persons sitting to the right of L is one less than the number of persons sitting to the left of Y. G sits to the right of J but doesn't sit to the right of O.

Q71. Who among the following person sits to the right of Q?

(a) J
(b) S
(c) O
(d) Z
(e) Both (2) and (4)

Q72. How many persons sit between S and Z?

(a) Two
(b) One
(c) Five
(d) Three
(e) None

Q73. Who among the following persons sits third from the left end?

(a) S
(b) C
(c) G
(d) L
(e) J

Q74. Which of the following statement(s) is/are TRUE?

(a) Q sits second from one of the ends
(b) Only two persons sit between J and Y
(c) O sits at the right end of the row
(d) Both 2 and 3
(e) Both 1 and 3

Q75. In which of the following pair, the second person sits to the immediate right of the first person?

(a) J, Q
(b) L, C
(c) G, O
(d) O, Y
(e) Y, Z

Directions

Directions: study the following information carefully and answer the questions given below.

Seven persons A, B, C, M, N, P, and R are of different heights. M is taller than B, who is taller than both N and A. R is taller than both N and C. The number of persons taller than N is the same as shorter than N. B is shorter than R, who is not the tallest person. Only two persons are between B and P, who is taller than C.

Q76. If the height of N and P is 72 inches and 60 inches respectively, then what is the possible height of C?

(a) 65 inches
(b) 67 inches
(c) 58 inches
(d) 61 inches
(e) 70 inches

Q77. How many persons are between R and P?

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

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(d) Three
(e) None

Q78. Who among the following person is the third shortest?

(a) P
(b) A
(c) C
(d) N
(e) B

Q79. If it is possible to make only one meaningful English word with the first, the second, the third and the fifth letters of the word PLANET, which of the following will be the third letter of that word? If no such word can be made give 'X' as the answer and if more than one such word can be made give 'Y' as the answer.

(a) A
(b) L
(c) E
(d) X
(e) Y

Directions

Direction: Study the following information carefully and answer the below questions

Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Pune, Surat and Noida. All the information given are not necessarily in the same order.

The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar. Only one person is designated between D and E, who is immediately junior to A. Only three persons are designated between A and the one who likes Surat. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai. F is immediately junior to C and likes Dehradun. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

Q80. ____ is immediately senior to B.

(a) A
(b) The one who likes Dehradun
(c) G
(d) The one who likes Delhi
(e) The one who likes Mumbai

Q81. How many persons are senior to one who likes Indore?

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

Q82. Who among the following is three designations senior to G?

(a) The one who likes Mumbai
(b) The one who likes Indore
(c) The one who likes Noida
(d) The one who likes Dehradun
(e) None of these

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Q83. If the designations of D and C are interchanged then who among the following is two designations junior to D?

(a) No one
(b) A
(c) G
(d) E
(e) B

Q84. Who among the following person is designated as Captain?

(a) A
(b) The one who likes Surat
(c) D
(d) C
(e) Both 2) and 4)

Directions

Directions: Study the following information carefully and answer the questions given below.

Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday. All the information given are not necessarily in the same order.

P goes on one of the days after Wednesday. Three persons go between P and the one who goes to play Cricket. As many persons go before the one who goes to play Cricket as after O. R goes immediately after the one who goes to play Chess. N goes two persons before R, who goes neither on Tuesday nor on Wednesday. L goes to play Volleyball neither on Sunday nor Monday. The one who goes to play Badminton goes three days after M. Either R or N goes to play Tennis. Q does not go to Hockey.

Q85. As many persons go before L as after ____?

(a) The one who goes to play Chess
(b) Q
(c) R
(d) O
(e) The one who goes on Sunday

Q86. P goes to play which of the following games?

(a) Hockey
(b) Tennis
(c) Cricket
(d) Badminton
(e) Chess

Q87. How many persons go between M and the one who goes to play Chess?

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

Q88. On which of the following days does Q go?

(a) Tuesday
(b) Monday
(c) Wednesday
(d) Thursday
(e) None of these

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Q89. Which of the following combinations is TRUE?

(a) M-Football
(b) Thursday-Chess
(c) R-Badminton
(d) Q-Volleyball
(e) Saturday-R

Q90. How many pairs of letters are there in the word “QUANTITATIVE” which have as many letters between them as in the English alphabet series (Both in forward and backward direction)

(a) One
(b) Two
(c) Three
(d) Four
(e) Five

Directions

Directions: Study the following information carefully and answer the questions below.

Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work in three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

B does not work in the same city as A, who works in the Indore city. B and C work together in the same city. D does not work in the Indore city. E, F, and G work together in the same city. A and H work in the same city, but I do not work in the same city as H. J neither works with C nor with F. K neither works in Surat nor works in the same city as F. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city. D neither works in Delhi nor works with C.

Q91. Who among the following person works in the Indore city?

(a) D
(b) F
(c) C
(d) The one who works with H
(e) The one who works with B

Q92. Who among the following person works in the Delhi?

(a) A
(b) C
(c) J
(d) K
(e) H

Q93. Who among the following person works with C?

(a) The one who works with J
(b) B
(c) I
(d) All of the above
(e) More than one option is correct

Q94. Which of the following statement(s) is/are TRUE?

(a) D and E works in the same city
(b) J works in the Surat city
(c) Only three persons work in Indore city
(d) Three persons are working in the Surat city
(e) K and F are working in the same city

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Q95. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following persons does not belong to the group?

(a) A
(b) H
(c) B
(d) J
(e) K

Directions

Direction: Study the following information carefully and answer the question given below:

Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

H sits third to the right of F, who sits opposite to J. Two persons sit between H and K, who faces the opposite direction as F. The number of persons sitting between J and H is one less than the number of persons sitting between F and E. L is an immediate neighbour of E. The immediate neighbours of L are facing the opposite direction of L. I sits second to the right of G where both are facing the same direction as E. The immediate neighbours of G are not facing the centre.

Q96. Who among the following person is sitting second to the left of the one who sits opposite to J?

(a) H
(b) E
(c) The one who sits opposite to L
(d) F
(e) The one who sits immediate right of G

Q97. How many persons are sitting between F and G when counted from the left of F?

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

Q98. In which of the following pair of persons the first person sits immediate left of the second person?

I). GF
II). JH
III). KF
IV). EL

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

Q99. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?

(a) J
(b) H
(c) I
(d) K
(e) L

Q100. What is the position of J with respect to I?

(a) Second to the right
(b) Third to the left
(c) Second to the left

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(d) Third to the right

(e) Immediate left

ANSWER KEY

1	a	2	a	3	d	4	a	5	c	6	b	7	c	8	d	9	e	10	d
11	c	12	c	13	b	14	b	15	b	16	c	17	d	18	b	19	e	20	b
21	a	22	b	23	c	24	a	25	d	26	a	27	d	28	e	29	a	30	e
31	c	32	b	33	d	34	b	35	c	36	a	37	b	38	b	39	c	40	b
41	c	42	c	43	c	44	c	45	c	46	e	47	e	48	d	49	c	50	a
51	c	52	a	53	c	54	b	55	c	56	c	57	d	58	c	59	c	60	d
61	c	62	c	63	b	64	c	65	a	66	d	67	c	68	e	69	b	70	c
71	c	72	e	73	a	74	d	75	c	76	c	77	d	78	b	79	e	80	c
81	d	82	b	83	a	84	e	85	a	86	e	87	a	88	b	89	b	90	c
91	d	92	b	93	e	94	a	95	c	96	e	97	d	98	a	99	c	100	b

SOLUTIONS

Q1. Answer: (a) engineering

The correct answer is 'engineering'.

Key Points

• The sentence describes the B-2 Spirit as representing a "pinnacle of aerospace ____ (1)." We need a word that signifies the highest achievement or excellence in the field of aircraft development and technology.

• Engineering refers to the application of scientific and mathematical principles to design, build, and maintain structures, machines, and other items. The creation of a highly complex and technologically advanced aircraft like the B-2 Spirit is fundamentally a triumph of engineering. "Pinnacle of aerospace engineering" accurately conveys the culmination of advanced scientific knowledge and practical application.

• Art (Option 2) is not a suitable term for technical and scientific achievement in aerospace.

• Design (Option 3) is a component of engineering, but "engineering" is a broader term that encompasses the entire process from conceptualization to realization, making it a more comprehensive fit for a "pinnacle."

• Machinery (Option 4) refers to machines collectively, but doesn't capture the intellectual and developmental achievement.

• Manufacturing (Option 5) refers to the production process, not the intellectual and scientific achievement in developing the aircraft.

Therefore, the correct answer is 'Option 1'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. ___through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. _of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. _is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. _. It remains a symbol of technological 6. ___in modern aerial warfare.

Additional Information

• Art: The expression or application of human creative skill and imagination.

• Design: A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.

• Machinery: Machines collectively; the working parts of a machine.

• Manufacturing: The making of articles on a large scale using machinery.

Q2. Answer: (a) penetrate

The correct answer is 'penetrate'.

Key Points

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• The sentence describes the primary mission of the B-2: "its primary mission is to ____ (2) through enemy air defenses undetected."

• Penetrate means to succeed in forcing a way into or through something. This precisely describes the B-2's ability to get past enemy defenses without being detected, which is the core concept of stealth. The B-2 is designed to bypass or get "through" sophisticated defense systems covertly.

• Avoid (Option 2) suggests staying away from defenses, but the B-2's mission often requires it to go into or through defended airspace, albeit undetected.

• Fly (Option 3) is too general; all aircraft fly. This doesn't specify the unique aspect of the B-2's mission.

• Attack (Option 4) is the ultimate purpose of a bomber, but the blank describes the action of getting through the defenses undetected, which is a prerequisite to attacking, not the attack itself in this context.

• Hover (Option 5) means to remain in one place in the air, which is not characteristic of a bomber's mission, especially when dealing with air defenses.

Therefore, the correct answer is 'Option 1'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. penetrate through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. ___of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. _is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. _. It remains a symbol of technological 6. ___in modern aerial warfare.

Additional Information

• Avoid: To keep away from.

• Fly: To move through the air.

• Attack: To take aggressive action against.

• Hover: To remain in one place in the air.

Q3. Answer: (d) payload

The correct answer is 'payload'.

Key Points

• The sentence states: "Each B-2 bomber is capable of carrying a massive ____ (3) of both conventional and nuclear weapons".

• In the context of aircraft or rockets, the specific term for the total weight of the cargo, passengers, or equipment (especially weapons or instruments) that a vehicle is designed to carry is payload. This is the most accurate and technical term used to describe the carrying capacity of military aircraft for weapons.

• Load (Option 1) is a more general term for something carried, but less specific than "payload" in an aerospace context.

• Quantity (Option 2) refers to an amount, but doesn't specifically denote what is carried by a vehicle.

• Arsenal (Option 3) refers to a collection of weapons or a place where they are made/stored, not the amount an aircraft carries on a single mission.

• Collection (Option 5) is similar to arsenal, implying a group gathered, not the capacity of a vehicle.

Therefore, the correct answer is 'Option 4'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. penetrate through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. payload of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. ___is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. _. It remains a symbol of technological 6. ___in modern aerial warfare.

Additional Information

• Load: A quantity, typically a large one, of something carried or to be carried.

• Quantity: The amount or number of a material or abstract thing not usually estimated by spatial extent or individual items.

• Arsenal: A collection of weapons and military equipment.

• Collection: A group of things or people.

Q4. Answer: (a) range

The correct answer is 'range'.

Key Points

• The sentence states: "The aircraft's operational ____ (4) is further enhanced by its ability to refuel in mid-air, allowing for global reach."

• Range refers to the maximum distance an aircraft can travel from its base without needing to land for fuel. Mid-air refueling directly extends this capability, enabling the aircraft to cover much greater distances and thus achieve "global reach." This term directly links the action (mid-air refueling) to the outcome (global reach).

• Speed (Option 2) refers to how fast the aircraft travels, not how far it can go. Mid-air refueling does not primarily enhance speed.

• Efficiency (Option 3) refers to performing with minimum waste of time or effort. While refueling can improve mission efficiency, "global reach" is about distance, not primarily efficiency.

• Flexibility (Option 4) refers to adaptability. While refueling offers operational flexibility, "global reach" is specifically about covering vast distances.

• Endurance (Option 5) refers to the ability to remain airborne for an extended period. While mid-air refueling certainly enhances endurance, the phrase "allowing for global reach" specifically points to the geographical distance covered, for which "range" is the most precise term. Longer endurance enables longer range.

Therefore, the correct answer is 'Option 1'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. penetrate through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. payload of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. range is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. ___. It remains a symbol of technological 6. ___in modern aerial warfare.

Additional Information

• Speed: The rate at which someone or something is able to move or operate.

• Efficiency: The state or quality of being efficient.

• Flexibility: The quality of bending easily without breaking.

• Endurance: The fact or power of enduring an unpleasant or difficult process or situation without giving way.

Q5. Answer: (c) systems

The correct answer is 'systems'.

Key Points

• The sentence states: "Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex ____ (5)." This blank refers to the inherent quality of the B-2 that makes it complex to maintain and operate.

• Systems refers to the various interconnected components and functionalities that make up the aircraft (e.g., flight control systems, navigation systems, stealth systems, electronic warfare systems, weapon systems). The B-2's cutting-edge capabilities are derived from its highly sophisticated and integrated systems, which naturally demand specialized maintenance and operation.

• Mechanics (Option 1) refers to the way parts work together or the underlying principles, which is part of the complexity, but "systems" is a more direct noun for the complex entities themselves.

• Structure (Option 2) refers to its physical build. While its structure is complex, the specialized maintenance is also heavily due to its electronic and other advanced, non-structural components.

• Blueprint (Option 4) refers to the design plan, not the inherent complexity of the realized aircraft.

• Purpose (Option 5) refers to its function, not the reason for its operational complexity.

Therefore, the correct answer is 'Option 3'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. penetrate through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. payload of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. range is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. systems. It remains a symbol of technological 6. _____in modern aerial warfare.

Additional Information

• Mechanics: The way in which a machine or system works, or the study of this.

• Structure: The arrangement of and relations between the parts or elements of something complex.

• Blueprint: A design plan or other technical drawing.

• Purpose: The reason for which something is done or created or for which something exists.

Q6. Answer: (b) prowess

The correct answer is 'prowess'.

Key Points

• The sentence concludes: "It remains a symbol of technological ____ (6) in modern aerial warfare." This implies that the B-2 represents the highest level of technological skill, ability, or excellence that provides a significant advantage.

• Prowess refers to skill or expertise in a particular activity or field; it denotes superior ability or mastery. In this context, "technological prowess" indicates that the B-2 embodies a very high level of technological capability and effectiveness in warfare, making it a leading symbol.

• Progress (Option 1) refers to advancement, but "prowess" implies a more definitive peak or superior ability achieved.

• Achievement (Option 3) means something successfully done. While the B-2 is a technological achievement, "prowess" highlights the skill and capability demonstrated.

• Sophistication (Option 4) refers to complexity and intricacy. While the B-2 is technologically sophisticated, "prowess" better conveys its effectiveness and leading position in the field.

• Novel (Option 5) means new and unusual. While the B-2 was novel, this refers to its newness, not its ongoing status as a symbol of peak technological ability.

Therefore, the correct answer is 'Option 2'.

Complete Passage: The B-2 Spirit, commonly known as the Stealth Bomber, represents a pinnacle of aerospace 1. engineering. Designed with a distinctive flying wing configuration, its primary mission is to 2. penetrate through enemy air defenses undetected. This incredible stealth capability is achieved through a combination of radar-absorbent materials, a unique aerodynamic design that minimizes its radar cross-section, and sophisticated electronic warfare systems. Each B-2 bomber is capable of carrying a massive 3. payload of both conventional and nuclear weapons, making it a critical asset in strategic military operations. The aircraft's operational 4. range is further enhanced by its ability to refuel in mid-air, allowing for global reach. Despite its immense power, the B-2 requires highly specialized maintenance and operation, a testament to its complex 5. systems. It remains a symbol of technological 6. prowess in modern aerial warfare.

Additional Information

• Progress: Forward or onward movement toward a destination.

• Achievement: A thing done successfully, typically by effort, courage, or skill.

• Sophistication: The quality of being sophisticated; refined, complex, or intricate.

• Novel: New and unusual in a way that is interesting or appealing.

Q7. Answer: (c) C

The correct answer is 'C' i.e. this part of the sentence has an error.

Key Points

• In the third part of the given sentence, the use of the plural form of the verb 'are' is incorrect.

• When the compound subject (here, students and their teacher) is joined by or, nor, neither... nor, either... or and one part of the compound subject is singular and the other part is plural, the verb needs to agree with the part closest to it.

• The singular subject 'teacher' is closest to the verb in the sentence, hence, the verb should be singular.

• Therefore, the singular form of the verb 'is' should be used in place of the plural form 'are'.

Hence, the correct answer is option 3.

Correct sentence: Neither students nor their teacher is participating in this concert.

Additional Information

• Subjects and verbs must agree with one another in number (singular or plural).

• Thus, if a subject is singular, its verb must also be singular; if a subject is plural, its verb must also be plural.

Q8. Answer: (d) D

The correct answer is 'D' i.e. this part of the sentence has an error.

Key Points

• In the fourth part of the given sentence, the adjective 'least' is a superlative degree.

• We know that the article 'the' precedes the superlative form of the adjective.

• Example: The least environmentally damaging power source is also the most expensive.

• In the given sentence, the adjective 'least' is the superlative form of the adjective.

• Therefore, the article 'the' should be used before the superlative form of the adjective 'least'.

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Hence, the correct answer is option 4.

Correct sentence: Sushant is the best artist of the time but, unfortunately, the least recognized.

Additional Information

• 'A' and 'an' are indefinite articles, which means that they refer to, or introduce, an unspecified noun.

• We use 'a' before a consonant sound and we use 'an' before a vowel sound.

• "No article" is used when we refer to general ideas, plurals, or uncountable nouns.

Q9. Answer: (e) E

The correct answer is 'E' i.e. No error.

Key Points

• In the given sentence, no improvement is required in any of the parts or there is no error in the sentence.

• The given sentence is the third conditional sentence explaining that present circumstances would be different if something different had happened in the past.

• The third conditional sentence format: if + past perfect, modal auxiliary (would, could, should, etc.) + have + past participle.

• When using the third conditional, we use the past perfect i.e., had + past participle (here, got) in the if-clause and the modal auxiliary (would, could, should, etc.) + have + past participle (here, been) in the main clause.

Hence, the correct answer is option 5.

Correct sentence: If I had got a gold medal, I would have been happy.

Additional Information

• If the 'if' clause comes first, a comma is usually used, if the 'if' clause comes second, there is no need for a comma.

• Example: We would have gone ice-skating if the weather had been good.

Q10. Answer: (d) D

The solution is in Hindi. Read it online.

Q11. Answer: (c) C

The solution is in Hindi. Read it online.

Q12. Answer: (c) C

The solution is in Hindi. Read it online.

Q13. Answer: (b) Both A & C

The solution is in Hindi. Read it online.

Q14. Answer: (b) Both A & B

The solution is in Hindi. Read it online.

Q15. Answer: (b) Both A & B

The solution is in Hindi. Read it online.

Q16. Answer: (c) B-C

The correct answer is Option (3) i.e. B-C

Key Points

• The sentence begins with the subject "Constant time pressure," which is correctly indicated by part (A).

• However, the phrase "declining anxiety, burnout, and stress" does not make sense as written. The word "declining" (B) should be swapped with "stress" (C) to convey the intended meaning.

• After the interchange, the sentence reads: "Constant time pressure contributes to stress, anxiety, burnout, and declining mental health across different age groups."

• This corrected sentence is grammatically correct and meaningful.

Therefore, the correct answer is B-C.

Additional Information

• Option 1 (A-D): This option suggests swapping "Constant" with "age groups," which does not make sense in the context of the sentence.

• Option 2 (B-D): This option suggests swapping "declining" with "age groups," which creates a fragmented and incorrect sentence.

• Option 4 (A-B): This option suggests swapping "Constant" with "declining," which disrupts the sentence's grammatical structure and meaning.

• Option 5 (No interchange required): This option assumes the sentence is correct as written, which is not the case.

Q17. Answer: (d) A-C

The correct answer is Option (4) i.e. A-C

Key Points

• The sentence provided is grammatically and contextually incorrect due to the misplacement of certain words.

• The word "Opportunities" (A) and "Women" (C) need to be interchanged to correct the sentence.

• When interchanged, the sentence becomes: "Women (A) often experience greater time poverty due to unpaid domestic (B) labour, reducing opportunities (C) for rest, career growth (D), and self-development," which is both meaningful and grammatically correct.

Therefore, the correct answer is A-C.

Additional Information

• Option 1 (A-B): Interchanging "Opportunities" and "labour" would result in a grammatically and contextually incorrect sentence.

• Option 2 (B-C): Interchanging "labour" and "Women" would disrupt the sentence's meaning.

• Option 3 (A-C and B-D): This option involves unnecessary interchanges that render the sentence incorrect.

• Option 5 (No interchange required): The given sentence is incorrect without any interchanges.

Q18. Answer: (b) B-D

Solution for the given question in HTML Format:

html

The correct answer is Option 2 i.e., B-D.

Key Points

• The sentence as given is incorrect because the placement of the words marked in bold creates confusion and lacks grammatical correctness.

• Interchanging the words marked B ("multiple") and D ("wealthier") resolves the issue.

• After the interchange, the sentence becomes: "Time inequality exists because wealthier individuals can buy convenience, while others spend hours commuting, working multiple jobs, or waiting for services."

• This revised sentence is grammatically correct and meaningful.

Therefore, the correct answer is B-D.

Additional Information

• Option 1 (A-C): Interchanging "Time" and "convenience" would make the sentence nonsensical.

• Option 3 (C-D): Interchanging "convenience" and "wealthier" disrupts the logical flow of the sentence.

• Option 4 (A-B): Interchanging "Time" and "multiple" does not resolve the grammatical issue.

• Option 5 (No interchange required): The sentence as given is incorrect and requires an interchange of words.

Q19. Answer: (e) found, restore

The correct answers are found, restore.

Key Points

• Found - having been discovered by chance or unexpectedly.

• Restore - return (someone or something) to a former condition, place, or position.

The sentence should be read as : Researchers also found, that the vaccine was able to restore normal blood sugar levels without using insulin.

Additional Information

Let us look at the meaning of some of the other options:

• discovered - find unexpectedly or during a search.

• decayed - having rotted or decomposed.

• surrender - stop resisting to an enemy or opponent and submit to their authority.

• delighted - feeling or showing great pleasure.

• experimented - perform a scientific procedure, especially in a laboratory, to determine something.

• desolate- (of a place) uninhabited and giving an impression of bleak emptiness.

• explored - travel through (an unfamiliar area) in order to learn about it.

• dislodged - knock or force out of position.

Important Points

• The sentence implies that the vaccine under consideration can return the blood sugar levels to normal.

• Thus, restore is correct for the second blank.
• Since 'restore' is listed under option 5, we need to see if 'found' fits the first blank.
• And since it fits, found and restore are the correct words.

Q20. Answer: (b) behavior, attractive

The correct answers are behavior, attractive.

Key Points

• Behavior - the way in which one acts or conducts oneself, especially towards others.
• Attractive - pleasing or appealing to the senses.

The sentence should be read as : Her behavior is easy and natural, and it is attractive because of its frankness and evident sincerity.

Additional Information

Let us look at the meaning of some of the other options:

• looks - an act of directing one's gaze in order to see someone or something.
• charms - the power or quality of delighting, attracting, or fascinating others.
• nature - the basic or inherent features, character, or qualities of something.
• natural - existing in or derived from nature; not made or caused by humankind.
• make-up - cosmetics.
• shining - giving out or reflecting bright light.
• mind - a person's ability to think and reason
• mindful - conscious or aware of something.

Important Points

• The sentence implies that the subject possesses something that is described as 'easy and natural'.
• The second blank needs a word that would describe the pleasing nature of the possession
• The combination of behavior and attractive are best fit for the given blanks.

Q21. Answer: (a) language, words

The correct answers are language, words.

Key Points

• Language - the principal method of human communication, consisting of words used in a structured and conventional way and conveyed by speech, writing, or gesture.
• Body language means a non-verbal method of expression or communication.
• Words - something spoken or written

The sentence should be read as: Body language is a form of communication without using words.

Additional Information

Let us look at the meaning of some of the other options:

• speech - the expression of or the ability to express thoughts and feelings by articulate sounds.
• dialect - a particular form of a language that is peculiar to a specific region or social group.
• verbal - relating to or in the form of words.
• vocabulary - the body of words used in a particular language.

Q22. Answer: (b) We, you and they

The correct answer is, 'We, you and they'

Key Points

• 'We' is a plural first-person pronoun.
• 'You' is a singular second-person pronoun.
• 'They' is a plural third-person pronoun.
• In the plural case, the order of the pronouns should be first-person, second-person, and then third-person (123).
• When the personal pronouns are plural, the order should be 123 irrespective of the positive or negative act.
• The correct order from the given options should be 'We, you and they'.

Hence, the correct option is option 2.

The correct sentence is: We, you and they will leave for the overseas trip, tomorrow.

Additional Information

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• Good manners require that the order of singular pronouns should be second-person, third-person and first-person (231).

• The order to be observed while referring to unpleasant acts is first-person, second-person and third-person (123).

Q23. Answer: (c) as competent as

The correct answer is, 'as competent as'.

Key Points

• The sentence talks about the competence of a female employee in accordance with her male counterparts, the use of 'as competent' seems incomplete as it doesn't seem to link the relationship between each other.

• Both 'as' and 'than' are required to be used when a sentence contains adjectives in positive and comparative forms, the given sentence contains both.

• Therefore, the use of 'as competent as' is correct according to the given sentence.

Hence, the correct option is option 3.

The correct sentence is: She deserves an equal raise as her male colleagues, after all, she is as competent as, if not more competent than them.

Additional Information

• 'As' is used in the positive degree to denote equality.

• 'Than' is used in the comparative degree.

Q24. Answer: (a) is in the

The correct answer is, 'is in the'

Key Points

• When 'the' article is used before the first noun only, it indicates that the two or more connected nouns refer to the same person or thing. the use of the plural verb 'are' or 'were' will be incorrect here, so we can eliminate option 2.

• In such cases singular verb 'is', is used to denote the present tense for third-person pronoun.

• 'been in the' and 'being in the' are wrong phrases to use here, so we can eliminate options 3 and 4.

• Therefore, the correct phrase replacement will be, 'is in the'.

Hence, the correct option is option 1.

The correct statement is: The Prime minister and chairperson of NITI Aayog is in the city for a conference.

Q25. Answer: (d) between themselves

The correct answer is 'between themselves'

Key Points

• Let us explore the given options:

• 'Beside' means 'by the side of'

• 'Besides' means 'in addition to'

• 'By' means 'doer of the action'

• 'Between' is used while referring to two persons/things. It may also be used for two or more in choice.

• 'Among' is used while referring to more than two persons/things.

• Because the sentence talks about two brothers, the use of 'between' will be correct in this case.

• Therefore, the correct answer will be 'between themselves'.

Hence, the correct option is option 4.

The correct sentence is: After a lengthy legal battle, the two brothers agreed to divide the property between themselves.

Q26. Answer: (a) had been

The correct answer is 'had been'

Key Points

• 'been' is a form of the verb 'to be', used with (present, past and future) perfect tense.

• The given sentence is in the past perfect tense, as Rajiv's trip to Goa was a year before.

• The rule to use been in this case will be :

• Subject+ had+ been + (verb)3+ by + object

• Therefore, the correct answer is 'had been'.

Hence, the correct option is option 1.

The correct sentence is: Rajiv had been to Goa last year.

Additional Information

• Passive voice for Present perfect- been
• Subject+ has/have+ been+ (Verb)3+ by+ Object
• Example: He has been appointed as a bank PO.
• Passive voice for future perfect- been
• Subject+ will/shall+ have been+ by+ (Verb)3+ Object
• Example: He shall have been sent his call letter by now.

Q27. Answer: (d) B

The correct answer is 'Option 4'.

Key Points

• Sentence B introduces stem cells and their unique ability to develop into different cell types.
• Sentence D elaborates on the importance of this characteristic in growth, repair, and regeneration.
• Sentence A explains how stem cells offer therapeutic potential for treating conditions like spinal cord injuries.
• Sentence E connects stem cell therapy to its potential in regenerative medicine.
• Sentence C acknowledges the ethical and regulatory challenges associated with stem cell research.

Therefore, the correct answer is 'Option 4'.

Correct Sequence:

B - Stem cells are unique because of their ability to develop into many different cell types in the body.

D - This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

A - By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

E - Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

C - Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

Additional Information

• Sentence B introduces stem cells and their unique ability, which is elaborated further in sentence D.
• Sentence A and E explain how this property of stem cells is applied in medical therapies.
• Sentence C provides a counterpoint, acknowledging the challenges that come with stem cell research.

Q28. Answer: (e) D

The correct answer is 'Option 5'.

Key Points

• Sentence B introduces stem cells and their unique ability to develop into many different cell types in the body.
• Sentence D elaborates on the importance of this characteristic in growth, repair, and regeneration within living organisms.
• This makes sentence D a logical follow-up to sentence B, as it provides additional information about the significance of stem cells.
• The other sentences either introduce new concepts or provide examples that are better placed later in the paragraph.

Therefore, the correct answer is 'Option 5'.

Explanation of Sequence:

B - Stem cells are unique because of their ability to develop into many different cell types in the body.

D - This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

A - By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

E - Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

C - Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

Additional Information

• Sentence B introduces stem cells and their ability to develop into many different cell types. Sentence D elaborates on why this is significant for growth, repair, and regeneration.
• This sequence flows logically, with sentence D being the most appropriate follow-up to B.
• The other sentences either discuss applications (A, E) or challenges (C), which would come later in the paragraph.

Q29. Answer: (a) A

The correct answer is 'Option 1'.

Key Points

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• Sentence B introduces stem cells and their ability to differentiate into various cell types.

• Sentence D further explains the significance of this characteristic in growth, repair, and regeneration.

• Sentence A follows logically as it details how this ability is used in treating conditions like spinal cord injuries and Parkinson's disease.

• Therefore, Sentence A is the third sentence, which builds on the information presented earlier in the paragraph.

Therefore, the correct answer is 'Option 1'.

Explanation of Sequence:

B - Stem cells are unique because of their ability to develop into many different cell types in the body.

D - This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

A - By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

E - Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

C - Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

Additional Information

• Sentence B introduces stem cells and their ability to differentiate into many different cell types, which is expanded upon in Sentence D.

• Sentence A logically follows to describe how this unique property can help treat specific conditions, making it the third sentence in the sequence.

• The other sentences focus on applications (E) or challenges (C), which are better suited later in the paragraph.

Q30. Answer: (e) E

The correct answer is 'Option 5'.

Key Points

• Sentence B introduces stem cells and their unique ability to differentiate into various cell types.

• Sentence D elaborates on the significance of this characteristic in growth, repair, and regeneration within living organisms.

• Sentence A explains how stem cells can help treat conditions like spinal cord injuries and Parkinson's disease, based on their ability to differentiate.

• Sentence E follows, emphasizing how stem cell therapy leverages these properties and represents a frontier in regenerative medicine.

• Thus, Sentence E is the logical fourth sentence, providing the conclusion to the previous ideas.

Therefore, the correct answer is 'Option 5'.

Explanation of Sequence:

B - Stem cells are unique because of their ability to develop into many different cell types in the body.

D - This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

A - By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

E - Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

C - Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

Additional Information

• Sentence E provides the conclusion by emphasizing the potential of stem cell therapy in regenerative medicine, making it the fourth sentence in the sequence.

• The previous sentences explain stem cell characteristics, their application in treatments, and their importance in medical advancements, all leading up to the statement in Sentence E.

Q31. Answer: (c) C

The correct answer is 'Option 3'.

Key Points

• Sentence B introduces stem cells and their unique ability to develop into many different cell types.

• Sentence D further explains the importance of this characteristic in growth, repair, and regeneration.

• Sentence A describes how stem cells are used in treating specific conditions, such as spinal cord injuries and Parkinson's disease.

• Sentence E emphasizes stem cell therapy as a frontier in regenerative medicine.

• Sentence C appropriately follows, addressing the ethical debates and regulatory challenges surrounding stem cell research, making it the fifth sentence in the paragraph.

Therefore, the correct answer is 'Option 3'.

Explanation of Sequence:

B - Stem cells are unique because of their ability to develop into many different cell types in the body.

D - This remarkable characteristic makes them crucial for growth, repair, and regeneration within living organisms.

A - By stimulating cells to differentiate into specialized tissues, it offers hope for treating conditions like spinal cord injuries and Parkinson's disease.

E - Stem cell therapy, leveraging these properties, represents a frontier in regenerative medicine.

C - Despite promising research, stem cell therapy faces ethical debates and regulatory challenges.

Additional Information

• Sentence C addresses the challenges surrounding stem cell therapy, making it the perfect conclusion to the previous statements.

• After discussing the potential of stem cell research and its applications, Sentence C brings attention to the obstacles it faces.

Q32. Answer: (b) Implementing smart city technologies

The correct answer is Option 2.

Key Points

• The passage discusses various challenges posed by rapid urbanization, but also suggests ways to manage these challenges.

• One approach mentioned is the implementation of smart city technologies. These technologies leverage data and connectivity to improve the efficiency of urban services and promote sustainable development.

• Examples provided include optimizing electricity usage with smart grids and reducing congestion and emissions with intelligent transportation systems.

Therefore, the correct answer is Option 2.

Correct Explanation: "Implementing smart city technologies is one approach to managing urbanization effectively, as it uses data and connectivity to enhance urban services and promote sustainability."

Additional Information

• Option 1: Limiting migration to cities is not mentioned as a solution in the passage.

• Option 3: Reducing the number of businesses in urban areas is not discussed as an approach to managing urbanization.

• Option 4: Expanding rural infrastructure may help alleviate some challenges, but it is not identified as a primary approach in the passage.

• Option 5: Increasing industrial activities within city limits is contradictory, as the passage mentions environmental degradation as a challenge.

Q33. Answer: (d) Abundance of natural habitats within cities

The correct answer is Option 4.

Key Points

• The passage mentions several challenges posed by urbanization, including strain on infrastructure and services, overcrowded housing, inadequate public transportation, and environmental degradation.

• However, an abundance of natural habitats within cities is not cited as a challenge. Instead, the passage notes that urbanization often encroaches on natural habitats, leading to biodiversity loss.

• Thus, "abundance of natural habitats within cities" does not align with the challenges discussed in the passage.

Therefore, the correct answer is Option 4.

Correct Interpretation: "While urbanization presents challenges such as infrastructure strain, overcrowded housing, inadequate public transportation, and environmental degradation, an abundance of natural habitats within cities is not one of them."

Additional Information

• Option 1: Strain on infrastructure and services is mentioned as a challenge in the passage.

• Option 2: Overcrowded housing is mentioned as a challenge in the passage.

• Option 3: Inadequate public transportation is mentioned as a challenge in the passage.

• Option 5: Environmental degradation is mentioned as a challenge in the passage.

Q34. Answer: (b) Only B

The correct answer is 'Option 2'.

Key Points

• A) They have no impact on the environmental sustainability of cities.

• This cannot be inferred from the passage. The passage emphasizes that smart city technologies can promote environmental sustainability by optimizing urban services, which is contrary to the statement.

• B) They can optimize urban services like traffic management and electricity usage.

• This can be inferred from the passage. The passage specifically mentions that smart city technologies can improve the efficiency of urban services, including traffic management and electricity usage.

• C) They are irrelevant to inclusive urban planning.

• This cannot be inferred from the passage. The passage mentions the significance of inclusive urban planning and does not suggest that smart city technologies are irrelevant to it.

Therefore, the correct answer is Only B.

Additional Information

• Only A: Incorrect because A cannot be inferred from the passage.

• Only C: Incorrect because C cannot be inferred from the passage.

• All A, B, and C: Incorrect because both A and C cannot be inferred from the passage.

• Both A and C: Incorrect because neither A nor C can be inferred from the passage.

Q35. Answer: (c) Though urbanization poses challenges, it also offers opportunities that can be managed for positive outcomes.

The correct answer is Option 3.

Key Points

• The passage explains both the opportunities and challenges presented by urbanization.

• It emphasizes that urbanization can lead to economic growth and innovation.

• However, it also highlights several issues such as strain on infrastructure and environmental degradation.

• Ultimately, the passage suggests that through thoughtful planning, urbanization can be managed for positive outcomes.

Therefore, the correct answer is Option 3.

Correct Interpretation: "Despite the challenges, urbanization provides opportunities for growth and innovation, and with proper management, it can lead to a sustainable future."

Additional Information

• Option 1: This statement is incorrect as the passage discusses urbanization as a global phenomenon, not limited to developing countries.

• Option 2: The passage does not suggest halting urbanization, but rather managing it effectively.

• Option 4: The loss of cultural identity is not identified as the main issue in the passage.

• Option 5: While innovation and cultural exchange are mentioned, they are not highlighted as the most significant benefits of urbanization.

Q36. Answer: (a) Only A

The correct answer is Option 1.

Key Points

• Statement A: Informal settlements often emerge as a consequence of rapid urbanization.

• This statement is correct as it accurately reflects the context provided in the passage.

• Statement B: Air and water quality are improved by increased urbanization.

• This statement is incorrect as the passage mentions that air and water quality are often compromised due to urbanization, impacting the health and well-being of urban residents.

• Statement C: Community engagement does not play a role in urban development.

• This statement is incorrect as the passage emphasizes that community engagement and participation are essential components of successful urban development.

• Hence, only statement A is identified as correct in the context of the passage.

Therefore, the correct answer is: ‘Only A’.

Q37. Answer: (b) Only B

The correct answer is Option 2.

Key Points

• Statement A: Cities offer a concentration of jobs and services often unavailable in rural areas.

• This statement is correct as it accurately reflects the context provided in the passage.

• Statement B: Smart city technologies have no impact on public transportation systems.

• The passage mentions that smart city technologies can improve the efficiency of urban services, including public transportation systems. Therefore, this statement is incorrect.

• Statement C: Environmental degradation is a significant issue associated with urbanization.

• This statement is correct as it aligns with the information provided in the passage about the environmental issues linked to urbanization.

• Hence, the statement B is identified as incorrect in the context of the passage.

Therefore, the correct answer is: 'Only B'.

Q38. Answer: (b) Increased pollution, waste generation, and resource consumption

The correct answer is 'increased pollution, waste generation, and resource consumption'.

Key Points

• The phrase "increased pollution, waste generation, and resource consumption" fits the context of the passage.

• The concentration of population and industry typically leads to environmental issues, making this phrase appropriate.

• Other options: "improved community engagement," "better access to healthcare services," "enhanced cultural exchange," and "reduced biodiversity loss" do not fit the context as appropriately.

Therefore, the correct answer is 'Option 2'.

Complete Sentence: The concentration of population and industry in cities leads to increased pollution, waste generation, and resource consumption.

Additional Information

• Improved community engagement: means better involvement and participation of community members.

• Enhanced cultural exchange: means an increase in the sharing of cultures and traditions.

• Reduced biodiversity loss): means a decrease in the loss of various species and ecosystems.

Q39. Answer: (c) House

The solution is in Hindi. Read it online.

Q40. Answer: (b) Exclusive

The solution is in Hindi. Read it online.

Q41. Answer: (c) Rs. 15,672

Person	Income	Expenditure	Savings
A	60,000	48,000	12,000
B	72,000	57,600	14,400
C	57,600	39,600	18,000
D	72,600	54,450	18,150
E	87,120	60,000	27,120

New income of E = 87,120 × 110% = Rs. 95,832

New savings of E = 95,832 − 60,000 = Rs. 35,832

New expenditure of B = 57,600 × 90% = Rs. 51,840

New savings of B = 72,000 − 51,840 = Rs. 20,160

Required Difference = 35,832 − 20,160 = Rs. 15,672

Q42. Answer: (c) 27%

Person	Income	Expenditure	Savings
A	60,000	48,000	12,000
B	72,000	57,600	14,400
C	57,600	39,600	18,000
D	72,600	54,450	18,150
E	87,120	60,000	27,120

Income of B & D = 72,000 + 72,600 = 1,44,600

Expenditure of C = 39,600

Required % = 39600/144600 x 100 = 27.39% ≈ 27.4%

Q43. Answer: (c) 63%

Person	Income	Expenditure	Savings
A	60,000	48,000	12,000
B	72,000	57,600	14,400
C	57,600	39,600	18,000
D	72,600	54,450	18,150
E	87,120	60,000	27,120

Average expenditure of A, B & D = (48000+57600+54450)/3 = 160050/3 = 53,350

Income of E = 87,120

Required % = (87120 – 53350)/53350 × 100 = 63.30% ≈ 63%

Q44. Answer: (c) 30%

Person	Income	Expenditure	Savings
A	60,000	48,000	12,000
B	72,000	57,600	14,400
C	57,600	39,600	18,000
D	72,600	54,450	18,150
E	87,120	60,000	27,120

New expenditure of C = 39,600 × 120% = 47,520

New savings of C = 57,600 − 47,520 = 10,080

Savings of B = 14,400

Required % = (14400 – 10080)/14400 x 100 = 30%

Q45. Answer: (c) 41%

Person	Income	Expenditure	Savings
A	60,000	48,000	12,000
B	72,000	57,600	14,400
C	57,600	39,600	18,000
D	72,600	54,450	18,150
E	87,120	60,000	27,120

Savings of A, C & D = 12,000 + 18,000 + 18,150 = 48,150

Expenditure of B & E = 57,600 + 60,000 = 1,17,600

Required percent = (48150/117600) x 100 = 40.94% ≈ 41%

Q46. Answer: (e) 4826

Calculation:

The series follows the following pattern

5 × 2 + 2 = 12

12 × 3 + 3 = 39

39 × 4 + 4 = 160

160 × 5 + 5 = 805

805 × 6 + 6 = 4836

Therefore The wrong number in the given series is 4826

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Q47. Answer: (e) 196

Considering the given series

14, 28, 56, 98, 196, 224

The logic of the given series can be explained as

14 + 14 × 1 = 28

28 + 14 × 2 = 56

56 + 14 × 3 = 98

98 + 14 × 4 = 154

154 + 14 × 5 = 224

Therefore Wrong term in given number series is 196.

Q48. Answer: (d) 165

Considering the given series

31, 102, 165, 256, 345, 446, 562

The series follows the following pattern:

31	102	176	256	345	446	562
+71	+74	+80	+89	+101	+116	
	+3	+6	+9	+12	+15	

Therefore Wrong term in given number series is 165.

Q49. Answer: (c) 50%

Given:

Time taken by A is 25% more than the time taken by B to complete the work.

Time taken by C is x% of the time taken by B to complete the work.

B and C alone complete the work in 20/3 days.

A alone can complete the work in 25 days.

Formula Used:

1) Time taken by A = 1.25 × Time taken by B

2) Combined Work Formula: 1/B + 1/C = 1/Total Time

Calculation:

Let the time taken by B to complete the work = y days

Time taken by A to complete the work = 1.25y

Given: Time taken by A = 25 days

=> 1.25y = 25

=> y = 25 / 1.25

=> y = 20 days

Time taken by B to complete the work = 20 days

Let the time taken by C to complete the work = z days

Given: B and C alone complete the work in 20/3 days

=> 1/20 + 1/z = 3/20

=> 1/z = 3/20 - 1/20

=> 1/z = 2/20

=> z = 20/2

=> z = 10 days

Time taken by C to complete the work = 10 days

Value of x = (Time taken by C / Time taken by B) × 100

=> x = (10 / 20) × 100

=> x = 0.5 × 100

=> x = 50%

The value of x is 50%.

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Q50. Answer: (a) 77 years

GIVEN:

=> Sudhir : Mother = 1 : 5 ----(1)

=> Sudhir : Father = 1 : 10 ----(2)

CALCULATION:

Making common ratios

=> Sudhir : Mother : Father = 1x : 5x : 10x ----(3)

Age of Mother four years after = 39 years.

Mother's present age = 35 years.

=> 5x = 35 years

=> 1x = 7 years

Present age of Sudhir = 7 years.

Present age of Father = 70 years.

Sum of their present age = 77 years.

Q51. Answer: (c) 26.8%

Total production by India = 120 + 150 + 180 + 210 + 240 = 900 lakh

Total production by China = 180 + 210 + 240 + 270 + 330 = 1230 lakh

Required Percentage = (1230 – 900)/1230 x 100 = 26.83% ≈ 26.8%

Q52. Answer: (a) 2:3

China for Company C = 420 – 180 = 240 lakh

Total production (India + China) for Company B = 360 lakh

Required ratio = 240 : 360 = 2 : 3

Q53. Answer: (c) 135.7%

Premium phones manufactured by China for Company E = 30% of 330 = 99 lakh

Premium phones manufactured by India for Company D = 20% of 210 = 42 lakh

Required Percentage = (99 – 42)/42 x 100 = 135.71% ≈ 135.7% approx.

Q54. Answer: (b) 36.4%

China's production for Companies A and D = 180 + 270 = 450 lakh

India's production for Companies B and C = 150 + 180 = 330 lakh

Required Percentage = [(450 – 330)/330] x 100 = 36.36% = 36.4% approx.

Q55. Answer: (c) 43%

China's production for Company B = (India + China) – India = 360 – 150 = 210 lakh

Average total production (India + China) for Companies C, D and E = (420 + 480 + 570)/3 = 490 lakh

Required Percentage = (210/490) x 100 = 42.857% = 43% approx.

Q56. Answer: (c) Rs. 4250

Shortcut Trick

Let the total salary be 100 units.

Remaining after house rent (15%) = 85 units.

Remaining after groceries (40% of 85) = 85 − 34 = 51 units.

Other expenses = 1/3 of 51 = 17 units. Final remaining = 51 − 17 = 34 units.

Since 34 units = Rs. 8500, then 1 unit = Rs. 250.

Other expenses (17 units) = 17 × 250 = Rs. 4250.

Therefore The correct answer is Rs. 4250.

Alternate Method

Given: Rent = 15%, Groceries = 40% of remaining, Other = 1/3 of next remaining, Final balance = Rs. 8500.

Calculations:

=> Let total salary be S.

=> After rent: S × (1 − 0.15) = 0.85S

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=> After groceries: 0.85S × (1 − 0.40) = 0.85S × 0.6 = 0.51S
=> Final balance after other expenses (1/3rd spent, so 2/3rd left): 0.51S × (2/3) = 0.34S
=> 0.34S = 8500
=> S = 8500 ÷ 0.34 = Rs. 25000
=> Amount before other expenses = 0.51 × 25000 = Rs. 12750
=> Other expenses = 1/3 × 12750 = Rs. 4250
Therefore The correct answer is Rs. 4250.
Additional Information
Successive Percentage Change
When values are spent from the remaining amount, use the multiplying factor: Final = Initial × (1 − r1) × (1 − r2)...
Fraction to Percentage Conversion
Spending 1/3 is equivalent to spending 33.33%. The remaining fraction is always (1 − spent fraction).

Q57. Answer: (d) 12

Shortcut Trick
CI for 2 years at 10% = 21% of Principal.
Scheme II Interest = 21% of 6000 = Rs. 1260.
Scheme I Interest = 1260 + 900 = Rs. 2160.
Rate (x) = (Interest × 100) ÷ (Principal × Time) = (2160 × 100) ÷ (6000 × 3) = 12%.
Therefore The correct answer is 12.
Alternate Method
Given: Principal (P) = Rs. 6000, Time for SI = 3 years, Rate for SI = x%, Time for CI = 2 years, Rate for CI = 10%.
Formula Used: SI = (P × R × T) ÷ 100; CI = $P[(1 + R/100)^n - 1]$
=> Interest from Scheme II (CI) = $6000 \times [(1 + 10/100)^2 - 1]$
=> CI = 6000 × [1.21 − 1] = 6000 × 0.21 = Rs. 1260
=> Interest from Scheme I (SI) = 1260 + 900 = Rs. 2160
=> SI = (6000 × x × 3) ÷ 100 = 180x
=> 180x = 2160
=> x = 2160 ÷ 180 = 12
Therefore The correct answer is 12.
Additional Information
Effective Rate of Compound Interest
For 2 years at R%, effective rate = $(2R + R^2/100)\%$. For 10%, it is (20 + 1) = 21%.
SI vs CI Difference for 2 Years
Difference = $P \times (R/100)^2$. This is used when the principal and rate are the same for both.
Simple Interest Property
Simple interest remains constant every year if the principal and rate remain unchanged.

Q58. Answer: (c) 100

Given:
Ratio of the quantity of rice and wheat = 5:3
1/4th of rice and half of wheat are mixed, and the difference between them is 10 kg
30% of the initial quantity of rice and y% of the initial quantity of wheat is 180 kg
Calculation:
Difference = |(1/4 × Rice) - (1/2 × Wheat)|
Total quantity equation: 30% of Rice + y% of Wheat = 180 kg
Let the quantity of rice be 5x and the quantity of wheat be 3x
1/4th of rice = 1/4 × 5x = 5x/4
1/2 of wheat = 1/2 × 3x = 3x/2
The difference between the mixed quantities is 10 kg
=> |5x/4 - 3x/2| = 10
Since 3x/2 > 5x/4:

=> 3x/2 - 5x/4 = 10
=> 6x/4 - 5x/4 = 10
=> x/4 = 10
=> x = 40
Quantity of rice = 5x = 5 × 40 = 200 kg
Quantity of wheat = 3x = 3 × 40 = 120 kg
30% of rice + y% of wheat = 180 kg
=> 0.3 × 200 + (y/100) × 120 = 180
=> 60 + 1.2y = 180
=> 1.2y = 120
=> y = 120 / 1.2
=> y = 100
Therefore The value of y is 100.

Q59. Answer: (c) 25/51

Given
Ace Spade is lost.
Concept used
P(E) = Favourable outcomes / Total outcomes
Calculation
As a Spade has lost,
Total number of cards = 52 -1 = 51.
Total number of black cards = 26 - 1 = 25.
P(Black Card) = 25/51
=> Probability of getting a Black Card = 25/51
Therefore Required answer is 25/51.

Q60. Answer: (d) 2 (1/4) days

Solution:
Let the efficiency of B be 100
Then, the efficiency of C = {(100 – 25)/100} × 100 = (75/100) × 100 = 75
Ratio of B's efficiency to C's efficiency = 100: 75 = 4: 3
Ratio of time taken by B to that of C = 3: 4
Time taken by B to complete the work = (3/4) × 12 = 9 days
x + 5 = 9
x = 4 days
So, total work = LCM of 4, 9 and 12 = 36 units
A's efficiency = 36/4 = 9 units/day
B's efficiency = 36/9 = 4 units/day
And, C's efficiency = 36/12 = 3 units/day
In one day, work done = 9 + 4 + 3 = 16 units
Now, required time = 36/16 = 9/4 = 2 (1/4) days

Q61. Answer: (c) 960

Common solution:
Since, the sum of the percentages in a pie chart = 100%
10 + x + (x + 2) + (x + 4) + (x + 8) = 100
4x + 24 = 100
4x = 76
So, x = 19

Institute	Percentage	Selected candidates
A	10%	4800

B	19%	9120
C	21%	10080
D	23%	11040
E	27%	12960

Calculation:

Applications received by Companies A and B together = 4,800 + 9,120 = 13,920

Applications received by Company E = 12,960

Required Difference = 13,920 − 12,960 = 960

Q62. Answer: (c) 93.33%

Common solution:

Since, the sum of the percentages in a pie chart = 100%

10 + x + (x + 2) + (x + 4) + (x + 8) = 100

4x + 24 = 100

4x = 76

So, x = 19

Institute	Percentage	Selected candidates
A	10%	4800
B	19%	9120
C	21%	10080
D	23%	11040
E	27%	12960

Calculation:

Increase the applications of Company C by 20% = 120% of 10080 = 2016

Required Percentage = (12096/12960) x 100 = 93.33%

Q63. Answer: (b) 2976

Common solution:

Since, the sum of the percentages in a pie chart = 100%

10 + x + (x + 2) + (x + 4) + (x + 8) = 100

4x + 24 = 100

4x = 76

So, x = 19

Institute	Percentage	Selected candidates
A	10%	4800
B	19%	9120
C	21%	10080
D	23%	11040
E	27%	12960

Calculation:

Shortlisted applications of Company B = 40% of 9120 = 3648

Shortlisted applications of Company D = 60% of 11040 = 6624

Required difference = 6624 – 3648 = 2976

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Q64. Answer: (c) 92.31%

Common solution:

Since, the sum of the percentages in a pie chart = 100%

10 + x + (x + 2) + (x + 4) + (x + 8) = 100

4x + 24 = 100

4x = 76

So, x = 19

Institute	Percentage	Selected candidates
A	10%	4800
B	19%	9120
C	21%	10080
D	23%	11040
E	27%	12960

Calculation:

Required percent = (21 + 27)/(10 + 19 + 23) x 100 = 92.31%

Q65. Answer: (a) 130%

Common solution:

Since, the sum of the percentages in a pie chart = 100%

10 + x + (x + 2) + (x + 4) + (x + 8) = 100

4x + 24 = 100

4x = 76

So, x = 19

Institute	Percentage	Selected candidates
A	10%	4800
B	19%	9120
C	21%	10080
D	23%	11040
E	27%	12960

Calculation:

Required percent = (11040 – 4800)/4800 x 100 = 130%

Q66. Answer: (d) 4 months

Solution:

Investment of A = Rs. 3500

Investment of B = Rs. 4000

Investment of C = Rs. 5000

To find the value of x

3500 × x : 4000 × (x + 2): 5000 × (12 - (x + 2)) = 14 : 24 : 30

3500 × x /(5000 × (10 - x)) = 14/30

(35 × x)/(50 × (10 -x)) = 7/15

525x = (3500 - 350x)

875x = 3500

x = 4

Q67. Answer: (c) 780m

Given:

Speed of train A: 15 m/s

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Speed of train B: 20 m/s

Time taken by train A to cross the standing man is 4 seconds less than the time taken by train B

Length of train B is 180 meters more than the length of train A

Concept Used:

Distance = Speed × Time.

Solution:

Let L_A be the length of train A.

The time taken by train A to cross the man is t_A = L_A / 15

Let L_B be the length of train B.

The time taken by train B to cross the man is t_B = L_B / 20

Given that L_B = L_A + 180 meters.

The time taken by train A is 4 seconds less than the time taken by train B:

t_A = t_B - 4

Substituting the expressions for t_A and t_B:

L_A / 15 = (L_B / 20) - 4

Substitute L_B = L_A + 180 into the equation, we get

L_A / 15 = (L_A + 180) / 20 - 4

Multiply through by 60 to clear the denominators:

4L_A = 3(L_A + 180) - 240

4L_A = 3L_A + 540 - 240

4L_A = 3L_A + 300

L_A = 300

L_B = L_A + 180 = 300 + 180 = 480

Sum of lengths = L_A + L_B = 300 + 480 = 780

The sum of the lengths of train A and train B is 780 meters.

Q68. Answer: (e) 25

Shortcut Trick

Net discount % for Case 1 = 10 + 20 − (10 × 20) ÷ 100 = 28%.

Net discount % for Case 2 = 15 + 15 − (15 × 15) ÷ 100 = 27.75%.

Difference in discount % = 28% − 27.75% = 0.25%.

Change in Selling Price = 0.25% of Marked Price = 0.0025 × 10000 = 25.

Therefore The correct answer is Rs. 25.

Alternate Method

Given → Marked Price (MP) = Rs. 10000, Case 1 Discounts = 10% and 20%, Case 2 Discounts = 15% and 15%.

Formulas: SP = MP × (100 − D1)% × (100 − D2)% | Net Discount = a + b − ab ÷ 100

=> Selling Price 1 (SP1) = 10000 × (90 ÷ 100) × (80 ÷ 100) = 10000 × 0.9 × 0.8 = 7200.

=> Selling Price 2 (SP2) = 10000 × (85 ÷ 100) × (85 ÷ 100) = 10000 × 0.85 × 0.85 = 7225.

=> Change in SP = |SP2 − SP1| = |7225 − 7200| = 25.

Therefore The correct answer is Rs. 25.

Additional Information

Successive Discounts

Applying multiple discounts one after another is called successive discounting. The total discount is always less than the sum of individual percentages because each subsequent discount is applied to the reduced price.

Constant Sum Property

When the sum of two successive discounts is constant (e.g., 10+20=30 and 15+15=30), the pair with the larger difference provides a higher total discount and a lower SP.

Q69. Answer: (b) Both statements I and II are required to answer the question.

Shortcut Trick

Volume ratio $V_{(cyl)} : V_{(cone)} = (\pi r1^2h1) : (1/3\pi r2^2h2) = 3(r1/r2)^2 \times (h1/h2)$.

From Statement I: r1 : r2 = 1 : 2 is known.

From Statement II: h1 = 21 cm and h2 = 21 − 7 = 14 cm. Thus, h1 : h2 is known.

Since both radius ratio and height ratio are required, I and II together are sufficient.

Therefore The correct answer is Both statements I and II are required to answer the question.

Alternate Method

Given: Ratio of volumes of Cylinder and Cone.

Formula Used: Volume of Cylinder = $\pi r^2 h$; Volume of Cone = $(1/3)\pi R^2 H$

=> Volume Ratio = $(\pi r1^2 h1) / (1/3\pi r2^2 h2) = 3 \times (r1/r2)^2 \times (h1/h2)$

=> From Statement I: r1/r2 = 1/2. (Ratio of radii is 1 : 2)

=> From Statement II: h1 = 21 cm, h2 = 21 − 7 = 14 cm. So, h1/h2 = 21/14 = 3/2.

=> Required Ratio = $3 \times (1/2)^2 \times (3/2) = 3 \times (1/4) \times (3/2) = 9/8$.

=> Statement III alone or with I/II without the other height info is insufficient to find specific heights.

Therefore The correct answer is Both statements I and II are required to answer the question.

Additional Information

Volume of Solids

The volume of a Cylinder is $\pi r^2 h$ and a Cone is $1/3\pi r^2 h$. If they have same radius and height, the cylinder volume is 3 times the cone volume.

Data Sufficiency for Ratios

To find a ratio of volumes, we only need the ratio of radii and the ratio of heights, not necessarily their absolute values.

Surface Area Formulas

Curved Surface Area (CSA) of cylinder = $2\pi rh$; CSA of cone = πrl, where l is the slant height $\sqrt{(r^2+h^2)}$.

Q70. Answer: (c) if the data in both the statements together are needed

Shortcut Trick

To find the speed of the boat in still water (x), we need the upstream speed (u) and downstream speed (d).

Statement I gives one linear equation: 14/u + 35/d = 4.

Statement II gives another linear equation: 29/u + 24/d = 5.

Two distinct linear equations with two variables (1/u and 1/d) can be solved to find unique values for u and d, and thus x = (d + u) ÷ 2.

Therefore The correct answer is both the statements together are needed.

Alternate Method

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

Upstream speed (u) = x − y and Downstream speed (d) = x + y.

From Statement I: 14/u + 35/d = 4 → (Eq 1)

From Statement II: 29/u + 24/d = 5 → (Eq 2)

=> Let 1/u = A and 1/d = B.

=> 14A + 35B = 4 and 29A + 24B = 5.

=> Solving these two equations gives specific values for A and B, which provides u and d.

=> Finally, x = (u + d) ÷ 2.

Therefore The correct answer is both the statements together are needed.

Additional Information

Boat and Stream Formulas

Downstream speed (d) = x + y; Upstream speed (u) = x − y. Speed of boat x = (d + u) ÷ 2; Speed of stream y = (d − u) ÷ 2.

Data Sufficiency Tip

For two unknown variables, you generally require two independent equations to find unique values. Always check if equations are redundant or inconsistent.

Q71. Answer: (c) O

Given: Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

1. S sits third to the left of C but does not sit at the ends.

2. Only two persons sit between C and O.

Here, there are two cases, i.e., Case 1 and case 2.

3. Q sits third to the right of Z.

4. Z sits adjacent to S but not sitting at the left end.

5. Only one person sits between Q and L, who doesn't sit adjacent to O.

6. The number of persons sitting to the right of L is one less than the number of persons sitting to the left of Y.

7. G sits to the right of J but doesn't sit to the right of O. Case 1 is eliminated because G sits to the right of O. Hence, the final arrangement:

O sits to the right of Q.

Hence, the correct answer is 'O'.

Q72. Answer: (e) None

Given: Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

1. S sits third to the left of C but does not sit at the ends.

2. Only two persons sit between C and O.

Here, there are two cases, i.e., Case 1 and case 2.

3. Q sits third to the right of Z.

4. Z sits adjacent to S but not sitting at the left end.

5. Only one person sits between Q and L, who doesn't sit adjacent to O.

6. The number of persons sitting to the right of L is one less than the number of persons sitting to the left of Y.

7. G sits to the right of J but doesn't sit to the right of O. Case 1 is eliminated because G sits to the right of O. Hence, the final arrangement:

No one sits between S and Z.

Hence, the correct answer is 'None'.

Q73. Answer: (a) S

Given: Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

1. S sits third to the left of C but does not sit at the ends.

2. Only two persons sit between C and O.

Here, there are two cases, i.e., Case 1 and case 2.

3. Q sits third to the right of Z.

4. Z sits adjacent to S but not sitting at the left end.

5. Only one person sits between Q and L, who doesn't sit adjacent to O.

6. The number of persons sitting to the right of L is one less than the number of persons sitting to the left of Y.

7. G sits to the right of J but doesn't sit to the right of O. Case 1 is eliminated because G sits to the right of O. Hence, the final arrangement:

S sits third from the left end.

Hence, the correct answer is 'S'.

Q74. Answer: (d) Both 2 and 3

Given: Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

1. S sits third to the left of C but does not sit at the ends.

2. Only two persons sit between C and O.

Here, there are two cases, i.e., Case 1 and case 2.

3. Q sits third to the right of Z.

4. Z sits adjacent to S but not sitting at the left end.

5. Only one person sits between Q and L, who doesn't sit adjacent to O.

6. The number of persons sitting to the right of L is one less than the number of persons sitting to the left of Y.

7. G sits to the right of J but doesn't sit to the right of O. Case 1 is eliminated because G sits to the right of O. Hence, the final arrangement:

True statements:

2. Only two persons sit between J and Y

3. O sits at the right end of the row

Hence, the correct answer is 'Both 2 and 3'.

Q75. Answer: (c) G, O

Given: Nine persons - C, G, J, L, O, Q, S, Y, and Z are sitting in a linear row such that all of them are facing north direction.

1. S sits third to the left of C but does not sit at the ends.

2. Only two persons sit between C and O.

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Here, there are two cases, i.e., Case 1 and case 2.

3. Q sits third to the right of Z.

4. Z sits adjacent to S but not sitting at the left end.

5. Only one person sits between Q and L, who doesn't sit adjacent to O.

6. The number of persons sitting to the right of L is one less than the number of persons sitting to the left of Y.

7. G sits to the right of J but doesn't sit to the right of O. Case 1 is eliminated because G sits to the right of O. Hence, the final arrangement:

O sits to the immediate right of G.

Hence, the correct answer is 'G, O'.

Q76. Answer: (c) 58 inches

Given: Seven persons A, B, C, M, N, P, and R are of different heights.

1. M is taller than B, who is taller than both N and A.

M > B > N, A

2. R is taller than both N and C.

R > N, C

3. The number of persons taller than N is the same as shorter than N.

_ > _ > _ > N > _ > _ > _

4. B is shorter than R, who is not the tallest person.

M > R > B > N > _ > _ > _

5. Only two persons are between B and P, who is taller than C.

M > R > B > N > _ > P > C

Final arrangement:

M > R > B > N > A > P > C

C is shorter than N and P, so the possible height of C = 58 inches

Hence, the correct answer is '58 inches'.

Q77. Answer: (d) Three

Given: Seven persons A, B, C, M, N, P, and R are of different heights.

1. M is taller than B, who is taller than both N and A.

M > B > N, A

2. R is taller than both N and C.

R > N, C

3. The number of persons taller than N is the same as shorter than N.

_ > _ > _ > N > _ > _ > _

4. B is shorter than R, who is not the tallest person.

M > R > B > N > _ > _ > _

5. Only two persons are between B and P, who is taller than C.

M > R > B > N > _ > P > C

Final arrangement:

M > R > B > N > A > P > C

Three persons are between R and P.

Hence, the correct answer is 'Three'.

Q78. Answer: (b) A

Given: Seven persons A, B, C, M, N, P, and R are of different heights.

1. M is taller than B, who is taller than both N and A.

M > B > N, A

2. R is taller than both N and C.

R > N, C

3. The number of persons taller than N is the same as shorter than N.

_ > _ > _ > N > _ > _ > _

4. B is shorter than R, who is not the tallest person.

M > R > B > N > _ > _ > _

5. Only two persons are between B and P, who is taller than C.

M > R > B > N > _ > P > C

Final arrangement:

M > R > B > N > A > P > C

A is the third shortest.

Hence, the correct answer is ‘A’.

Q79. Answer: (e) Y

Given Word: PLANET

1st letter = P; 2nd letter = L; 3rd letter = A; 5th letter = E

Letters given: P L A E

Possible words: PALE (light in colour), LEAP (to jump), PEAL (a loud sound), PLEA (a request made in an urgent and emotional manner).

Hence, more than one such word can be made, and the answer is Y.

Q80. Answer: (c) G

Given: Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Mumbai, Surat and Noida. All the information given are not necessarily in the same order.

1. The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar.

2. Only one person is designated between D and E, who is immediately junior to A.

3. Only three persons are designated between A and the one who likes Surat.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		**Case 2**	
Designations	Persons	Cities	Persons	Cities
General			D	
Brigadier	D		A	Delhi
Colonel	A	Delhi	E	
Lt. Colonel	E		G	
Major	G			
Captain				Surat
Subedar		Surat		

4. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai.

5. F is immediately junior to C and likes Dehradun.

Case 1 is eliminated because F is immediately junior to C and likes Dehradun, which is not satisfied.

	Case 2	
Designations	Persons	Cities
General	D	Indore/Mumbai
Brigadier	A	Delhi
Colonel	E	
Lt. Colonel	G	
Major		Indore/Mumbai
Captain	C	Surat
Subedar	F	Dehradun

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6. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

The final arrangement is:

Designations	Persons	Cities
General	D	Indore
Brigadier	A	Delhi
Colonel	E	Noida
Lt. Colonel	G	Pune
Major	B	Mumbai
Captain	C	Surat
Subedar	F	Dehradun

G is immediately senior to B.

Hence, the correct answer is 'G'.

Q81. Answer: (d) None

Given: Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Mumbai, Surat and Noida. All the information given are not necessarily in the same order.

1. The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar.

2. Only one person is designated between D and E, who is immediately junior to A.

3. Only three persons are designated between A and the one who likes Surat.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Designations	Persons	Cities	Persons	Cities
General			D	
Brigadier	D		A	Delhi
Colonel	A	Delhi	E	
Lt. Colonel	E		G	
Major	G			
Captain				Surat
Subedar		Surat		

4. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai.

5. F is immediately junior to C and likes Dehradun.

Case 1 is eliminated because F is immediately junior to C and likes Dehradun, which is not satisfied.

	Case 2	
Designations	Persons	Cities
General	D	Indore/Mumbai
Brigadier	A	Delhi
Colonel	E	
Lt. Colonel	G	
Major		Indore/Mumbai
Captain	C	Surat

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Subedar	F	Dehradun

6. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

The final arrangement is:

Designations	Persons	Cities
General	D	Indore
Brigadier	A	Delhi
Colonel	E	Noida
Lt. Colonel	G	Pune
Major	B	Mumbai
Captain	C	Surat
Subedar	F	Dehradun

No one is senior to one who likes Indore.

Hence, the correct answer is ‘No one’.

Q82. Answer: (b) The one who likes Indore

Given: Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Mumbai, Surat and Noida. All the information given are not necessarily in the same order.

1. The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar.

2. Only one person is designated between D and E, who is immediately junior to A.

3. Only three persons are designated between A and the one who likes Surat.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Designations	Persons	Cities	Persons	Cities
General			D	
Brigadier	D		A	Delhi
Colonel	A	Delhi	E	
Lt. Colonel	E		G	
Major	G			
Captain				Surat
Subedar		Surat		

4. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai.

5. F is immediately junior to C and likes Dehradun.

Case 1 is eliminated because F is immediately junior to C and likes Dehradun, which is not satisfied.

	Case 2	
Designations	Persons	Cities
General	D	Indore/Mumbai
Brigadier	A	Delhi
Colonel	E	
Lt. Colonel	G	

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Major		Indore/Mumbai
Captain	C	Surat
Subedar	F	Dehradun

6. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

The final arrangement is:

Designations	Persons	Cities
General	D	Indore
Brigadier	A	Delhi
Colonel	E	Noida
Lt. Colonel	G	Pune
Major	B	Mumbai
Captain	C	Surat
Subedar	F	Dehradun

The one who likes Indore is three designations senior to G.

Hence, the correct answer is ‘The one who likes Indore’.

Q83. Answer: (a) No one

Given: Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Mumbai, Surat and Noida. All the information given are not necessarily in the same order.

1. The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar.

2. Only one person is designated between D and E, who is immediately junior to A.

3. Only three persons are designated between A and the one who likes Surat.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Designations	Persons	Cities	Persons	Cities
General			D	
Brigadier	D		A	Delhi
Colonel	A	Delhi	E	
Lt. Colonel	E		G	
Major	G			
Captain				Surat
Subedar		Surat		

4. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai.

5. F is immediately junior to C and likes Dehradun.

Case 1 is eliminated because F is immediately junior to C and likes Dehradun, which is not satisfied.

	Case 2	
Designations	Persons	Cities
General	D	Indore/Mumbai
Brigadier	A	Delhi

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Colonel	E	
Lt. Colonel	G	
Major		Indore/Mumbai
Captain	C	Surat
Subedar	F	Dehradun

6. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

The final arrangement is:

Designations	Persons	Cities
General	D	Indore
Brigadier	A	Delhi
Colonel	E	Noida
Lt. Colonel	G	Pune
Major	B	Mumbai
Captain	C	Surat
Subedar	F	Dehradun

If the designations of D and C are interchanged then no one is two designations junior to D.

Hence, the correct answer is ‘No one’.

Q84. Answer: (e) Both 2) and 4)

Given: Seven persons – A, B, C, D, E, F and G are working in the Indian army at different designations such as General, Brigadier, Colonel, Lt. Colonel, Major, Captain, and Subedar. The hierarchy of the designations is given in decreasing order such that General is the seniormost designation and Subedar is the juniormost designation. All of them like different cities i.e., Indore, Delhi, Mumbai, Dehradun, Mumbai, Surat and Noida. All the information given are not necessarily in the same order.

1. The one who likes Delhi is immediately junior to D, who is three designations senior to G, who is not the Subedar.

2. Only one person is designated between D and E, who is immediately junior to A.

3. Only three persons are designated between A and the one who likes Surat.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Designations	Persons	Cities	Persons	Cities
General			D	
Brigadier	D		A	Delhi
Colonel	A	Delhi	E	
Lt. Colonel	E		G	
Major	G			
Captain				Surat
Subedar		Surat		

4. The number of persons senior to E is one less than the number of persons designated between the one who likes Indore and Mumbai.

5. F is immediately junior to C and likes Dehradun.

Case 1 is eliminated because F is immediately junior to C and likes Dehradun, which is not satisfied.

	Case 2	
Designations	Persons	Cities

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General	D	Indore/Mumbai
Brigadier	A	Delhi
Colonel	E	
Lt. Colonel	G	
Major		Indore/Mumbai
Captain	C	Surat
Subedar	F	Dehradun

6. The one who likes Mumbai is neither designated adjacent to the one who likes Indore nor designated adjacent to the one who likes Delhi.

The final arrangement is:

Designations	Persons	Cities
General	D	Indore
Brigadier	A	Delhi
Colonel	E	Noida
Lt. Colonel	G	Pune
Major	B	Mumbai
Captain	C	Surat
Subedar	F	Dehradun

The one who likes Surat and C is designated as Captain.

Hence, the correct answer is ‘Both 2) and 4)’.

Q85. Answer: (a) The one who goes to play Chess

Given: Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday.

1. P goes on one of the days after Wednesday.

2. Three persons go between P and the one who goes to play Cricket.

3. As many persons go before the one who goes to play Cricket as after O.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday				
Thursday	P		O	
Friday				
Saturday	O		P	

4. R goes immediately after the one who goes to play Chess.

5. N goes two persons before R, who goes neither on Tuesday nor on Wednesday.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		

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Monday				Cricket
Tuesday				
Wednesday	N		N	
Thursday	P	Chess	O	Chess
Friday	R		R	
Saturday	O		P	

6. L goes to play Volleyball neither on Sunday nor Monday.

7. The one who goes to play Badminton goes three days after M.

8. Either R or N goes to play Tennis.

9. Q does not go to Hockey.

Case 2 gets eliminated because L goes to play Volleybal, neither on Sunday nor on Monday which is not satisfied. So, Case 1 is the final arrangement.

Days	Persons	Games
Sunday	M	Cricket
Monday	Q	Football
Tuesday	L	Volleyball
Wednesday	N	Badminton
Thursday	P	Chess
Friday	R	Tennis
Saturday	O	Hockey

As many persons go before L as after the one who goes to play Chess.

Hence, the correct answer is ‘The one who goes to play Chess’.

Q86. Answer: (e) Chess

Given: Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday.

1. P goes on one of the days after Wednesday.

2. Three persons go between P and the one who goes to play Cricket.

3. As many persons go before the one who goes to play Cricket as after O.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday				
Thursday	P		O	
Friday				
Saturday	O		P	

4. R goes immediately after the one who goes to play Chess.

5. N goes two persons before R, who goes neither on Tuesday nor on Wednesday.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games

Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday	N		N	
Thursday	P	Chess	O	Chess
Friday	R		R	
Saturday	O		P	

6. L goes to play Volleyball neither on Sunday nor Monday.
7. The one who goes to play Badminton goes three days after M.
8. Either R or N goes to play Tennis.
9. Q does not go to Hockey.

Case 2 gets eliminated because L goes to play Volleybal, neither on Sunday nor on Monday which is not satisfied. So, Case 1 is the final arrangement.

Days	Persons	Games
Sunday	M	Cricket
Monday	Q	Football
Tuesday	L	Volleyball
Wednesday	N	Badminton
Thursday	P	Chess
Friday	R	Tennis
Saturday	O	Hockey

P goes to play Chess.

Hence, the correct answer is ‘Chess’.

Q87. Answer: (a) Three

Given: Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday.

1. P goes on one of the days after Wednesday.
2. Three persons go between P and the one who goes to play Cricket.
3. As many persons go before the one who goes to play Cricket as after O.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday				
Thursday	P		O	
Friday				
Saturday	O		P	

4. R goes immediately after the one who goes to play Chess.
5. N goes two persons before R, who goes neither on Tuesday nor on Wednesday.

	Case 1		Case 2	

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Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday	N		N	
Thursday	P	Chess	O	Chess
Friday	R		R	
Saturday	O		P	

6. L goes to play Volleyball neither on Sunday nor Monday.
7. The one who goes to play Badminton goes three days after M.
8. Either R or N goes to play Tennis.
9. Q does not go to Hockey.

Case 2 gets eliminated because L goes to play Volleybal, neither on Sunday nor on Monday which is not satisfied. So, Case 1 is the final arrangement.

Days	Persons	Games
Sunday	M	Cricket
Monday	Q	Football
Tuesday	L	Volleyball
Wednesday	N	Badminton
Thursday	P	Chess
Friday	R	Tennis
Saturday	O	Hockey

Three persons go between M and the one who goes to play Chess.

Hence, the correct answer is ‘Three’.

Q88. Answer: (b) Monday

Given: Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday.

1. P goes on one of the days after Wednesday.
2. Three persons go between P and the one who goes to play Cricket.
3. As many persons go before the one who goes to play Cricket as after O.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday				
Thursday	P		O	
Friday				
Saturday	O		P	

4. R goes immediately after the one who goes to play Chess.
5. N goes two persons before R, who goes neither on Tuesday nor on Wednesday.

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	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday	N		N	
Thursday	P	Chess	O	Chess
Friday	R		R	
Saturday	O		P	

6. L goes to play Volleyball neither on Sunday nor Monday.
7. The one who goes to play Badminton goes three days after M.
8. Either R or N goes to play Tennis.
9. Q does not go to Hockey.

Case 2 gets eliminated because L goes to play Volleybal, neither on Sunday nor on Monday which is not satisfied. So, Case 1 is the final arrangement.

Days	Persons	Games
Sunday	M	Cricket
Monday	Q	Football
Tuesday	L	Volleyball
Wednesday	N	Badminton
Thursday	P	Chess
Friday	R	Tennis
Saturday	O	Hockey

Q goes on Monday.

Hence, the correct answer is ‘Monday’.

Q89. Answer: (b) Thursday-Chess

Given: Seven persons — L, M, N, O, P, Q, and R are going to play different games — Cricket, Hockey, Chess, Tennis, Volleyball, Football, and Badminton on different days of the week from Sunday to Saturday.

1. P goes on one of the days after Wednesday.
2. Three persons go between P and the one who goes to play Cricket.
3. As many persons go before the one who goes to play Cricket as after O.

Here, there are two cases, i.e., Case 1 and case 2.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday				
Thursday	P		O	
Friday				
Saturday	O		P	

4. R goes immediately after the one who goes to play Chess.

5. N goes two persons before R, who goes neither on Tuesday nor on Wednesday.

	Case 1		Case 2	
Days	Persons	Games	Persons	Games
Sunday		Cricket		
Monday				Cricket
Tuesday				
Wednesday	N		N	
Thursday	P	Chess	O	Chess
Friday	R		R	
Saturday	O		P	

6. L goes to play Volleyball neither on Sunday nor Monday.

7. The one who goes to play Badminton goes three days after M.

8. Either R or N goes to play Tennis.

9. Q does not go to Hockey.

Case 2 gets eliminated because L goes to play Volleybal, neither on Sunday nor on Monday which is not satisfied. So, Case 1 is the final arrangement.

Days	Persons	Games
Sunday	M	Cricket
Monday	Q	Football
Tuesday	L	Volleyball
Wednesday	N	Badminton
Thursday	P	Chess
Friday	R	Tennis
Saturday	O	Hockey

True combination: Thursday-Chess

Hence, the correct answer is ‘Thursday-Chess’.

Q90. Answer: (c) Three

Hence, we have only three such pairs of letters (TV, AE, and QN).

Q91. Answer: (d) The one who works with H

Given: Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work across three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

1. B does not work in the same city as A, who works in the Indore city.

2. B and C work together in the same city.

3. D does not work in the Indore city.

Here, there are two cases, i.e., Case 1 and case 2.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D	A	D/	B
	C				C
	D/				D/

4. E, F, and G work together in the same city.

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5. A and H work in the same city, but I do not work in the same city as H.

6. J neither works with C nor with F.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D/I	A	D/I	B
H	C	E	H	E	C
J	D/I	F	J	F	D/I
		G	K	G	

7. K neither works in Surat nor works in the same city as F.

8. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city.

9. D neither works in Delhi nor works with C.

Case 1 gets eliminated because D neither works in Delhi nor works with C, which is not satisfied. So, Case 2 is the final arrangement.

Indore	Surat	Delhi
A	D	B
H	E	C
J	F	I
K	G	--

The one who works with H works in the Indore city.

Hence, the correct answer is ‘The one who works with H’.

Q92. Answer: (b) C

Given: Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work across three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

1. B does not work in the same city as A, who works in the Indore city.

2. B and C work together in the same city.

3. D does not work in the Indore city.

Here, there are two cases, i.e., Case 1 and case 2.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D	A	D/	B
	C				C
	D/				D/

4. E, F, and G work together in the same city.

5. A and H work in the same city, but I do not work in the same city as H.

6. J neither works with C nor with F.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D/I	A	D/I	B
H	C	E	H	E	C
J	D/I	F	J	F	D/I
		G	K	G	

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7. K neither works in Surat nor works in the same city as F.

8. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city.

9. D neither works in Delhi nor works with C.

Case 1 gets eliminated because D neither works in Delhi nor works with C, which is not satisfied. So, Case 2 is the final arrangement.

Indore	Surat	Delhi
A	D	B
H	E	C
J	F	I
K	G	--

C works in the Delhi.

Hence, the correct answer is ‘C’.

Q93. Answer: (e) More than one option is correct

Given: Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work across three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

1. B does not work in the same city as A, who works in the Indore city.

2. B and C work together in the same city.

3. D does not work in the Indore city.

Here, there are two cases, i.e., Case 1 and case 2.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D	A	D/	B
	C				C
	D/				D/

4. E, F, and G work together in the same city.

5. A and H work in the same city, but I do not work in the same city as H.

6. J neither works with C nor with F.

Case 1			Case 2		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D/I	A	D/I	B
H	C	E	H	E	C
J	D/I	F	J	F	D/I
		G	K	G	

7. K neither works in Surat nor works in the same city as F.

8. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city.

9. D neither works in Delhi nor works with C.

Case 1 gets eliminated because D neither works in Delhi nor works with C, which is not satisfied. So, Case 2 is the final arrangement.

Indore	Surat	Delhi
A	D	B
H	E	C
J	F	I

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K	G	--

B and I work with C.

Hence, the correct answer is ‘More than one option is correct’.

Q94. Answer: (a) D and E works in the same city

Given: Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work across three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

1. B does not work in the same city as A, who works in the Indore city.

2. B and C work together in the same city.

3. D does not work in the Indore city.

Here, there are two cases, i.e., Case 1 and case 2.

Case 1			**Case 2**		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D	A	D/	B
	C				C
	D/				D/

4. E, F, and G work together in the same city.

5. A and H work in the same city, but I do not work in the same city as H.

6. J neither works with C nor with F.

Case 1			**Case 2**		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D/I	A	D/I	B
H	C	E	H	E	C
J	D/I	F	J	F	D/I
		G	K	G	

7. K neither works in Surat nor works in the same city as F.

8. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city.

9. D neither works in Delhi nor works with C.

Case 1 gets eliminated because D neither works in Delhi nor works with C, which is not satisfied. So, Case 2 is the final arrangement.

Indore	**Surat**	**Delhi**
A	D	B
H	E	C
J	F	I
K	G	--

True statement: J works in the Surat city

Hence, the correct answer is ‘J works in the Surat city’.

Q95. Answer: (c) B

Given: Eleven persons —A, B, C, D, E, F, G, H, I, J and K—work across three different cities: Indore, Surat and Delhi. At least three but not more than four persons work in each city.

1. B does not work in the same city as A, who works in the Indore city.

2. B and C work together in the same city.

3. D does not work in the Indore city.

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Here, there are two cases, i.e., Case 1 and case 2.

Case 1			**Case 2**		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D	A	D/	B
	C				C
	D/				D/

4. E, F, and G work together in the same city.

5. A and H work in the same city, but I do not work in the same city as H.

6. J neither works with C nor with F.

Case 1			**Case 2**		
Indore	Surat	Delhi	Indore	Surat	Delhi
A	B	D/I	A	D/I	B
H	C	E	H	E	C
J	D/I	F	J	F	D/I
		G	K	G	

7. K neither works in Surat nor works in the same city as F.

8. The number of persons who work in the Delhi city is one less than the number of persons who work in the Surat city.

9. D neither works in Delhi nor works with C.

Case 1 gets eliminated because D neither works in Delhi nor works with C, which is not satisfied. So, Case 2 is the final arrangement.

Indore	**Surat**	**Delhi**
A	D	B
H	E	C
J	F	I
K	G	--

In all the other options, all the other persons work in the same department except option C.

Hence, the correct answer is ‘B’.

Q96. Answer: (e) The one who sits immediate right of G

Given: Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

1. H sits third to the right of F, who sits opposite to J.

2. Two persons sit between H and K, who faces the opposite direction as F.

Here, there are two cases, i.e., Case 1 and case 2.

3. The number of persons sitting between J and H is one less than the number of persons sitting between F and E.

4. L is an immediate neighbour of E.

5. The immediate neighbours of L are facing the opposite direction of L.

6. I sits second to the right of G where both are facing the same direction as E.

7. The immediate neighbours of G are not facing the centre. Case 2 is eliminated because the immediate neighbour of G facing the centre.

So, Case 1 is the final arrangement.

The one who sits immediate right of G is sitting second to the left of the one who sits opposite to J.

Hence, the correct answer is ‘The one who sits immediate right of G’.

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Q97. Answer: (d) Two

Given: Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

1. H sits third to the right of F, who sits opposite to J.

2. Two persons sit between H and K, who faces the opposite direction as F.

Here, there are two cases, i.e., Case 1 and case 2.

3. The number of persons sitting between J and H is one less than the number of persons sitting between F and E.

4. L is an immediate neighbour of E.

5. The immediate neighbours of L are facing the opposite direction of L.

6. I sits second to the right of G where both are facing the same direction as E.

7. The immediate neighbours of G are not facing the centre. Case 2 is eliminated because the immediate neighbour of G facing the centre.

So, Case 1 is the final arrangement.

Two persons are sitting between F and G when counted from the left of F.

Hence, the correct answer is 'Two'.

Q98. Answer: (a) Only II and IV

Given: Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

1. H sits third to the right of F, who sits opposite to J.

2. Two persons sit between H and K, who faces the opposite direction as F.

Here, there are two cases, i.e., Case 1 and case 2.

3. The number of persons sitting between J and H is one less than the number of persons sitting between F and E.

4. L is an immediate neighbour of E.

5. The immediate neighbours of L are facing the opposite direction of L.

6. I sits second to the right of G where both are facing the same direction as E.

7. The immediate neighbours of G are not facing the centre. Case 2 is eliminated because the immediate neighbour of G facing the centre.

So, Case 1 is the final arrangement.

J sits immediate left of H and E sits immediate left of L.

Hence, the correct answer is 'Only II and IV'.

Q99. Answer: (c) I

Given: Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

1. H sits third to the right of F, who sits opposite to J.

2. Two persons sit between H and K, who faces the opposite direction as F.

Here, there are two cases, i.e., Case 1 and case 2.

3. The number of persons sitting between J and H is one less than the number of persons sitting between F and E.

4. L is an immediate neighbour of E.

5. The immediate neighbours of L are facing the opposite direction of L.

6. I sits second to the right of G where both are facing the same direction as E.

7. The immediate neighbours of G are not facing the centre. Case 2 is eliminated because the immediate neighbour of G facing the centre.

So, Case 1 is the final arrangement.

Except I, all are facing the centre.

Hence, the correct answer is 'I'.

Q100. Answer: (b) Third to the left

Given: Eight persons - E, F, G, H, I, J, K and L are sitting around a circular table with equal distance between adjacent persons. Four of them are facing away from the centre while four of them are facing towards the centre of the table.

1. H sits third to the right of F, who sits opposite to J.

2. Two persons sit between H and K, who faces the opposite direction as F.

Here, there are two cases, i.e., Case 1 and case 2.

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3. The number of persons sitting between J and H is one less than the number of persons sitting between F and E.
4. L is an immediate neighbour of E.
5. The immediate neighbours of L are facing the opposite direction of L.
6. I sits second to the right of G where both are facing the same direction as E.
7. The immediate neighbours of G are not facing the centre. Case 2 is eliminated because the immediate neighbour of G facing the centre.

So, Case 1 is the final arrangement.

J is third to the left of I.

Hence, the correct answer is 'Third to the left'.

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