SBI PO Prelims Memory Based Paper (Held On: 5 August 2025 Shift 1) (Previous Year Paper)

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

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

yourmocktest.com/pyq/sbi-po/sbi-po-prelims-memory-based-paper-held-on-5-august-2025-shift…

Scan the QR code or click the link to open it.

YourMockTest.com — Free Study Material

ENGLISH LANGUAGE

Q1. Directions: Find out the most effective word from the given options to fill in the blanks of the following questions.

1. The cup warmer will allow your beverage to _____ its temperature for at least an hour.
2. Because my sister is a shopping addict, she finds it hard to _____ money.

(a) Agony
(b) Retain
(c) Feud
(d) Strive
(e) Affliction

Q2. Directions: Find out the most effective word from the given options to fill in the blanks of the following questions.

1. While Rahul agreed to take out the trash, his _____ to do so was obvious by how long he delayed actually doing it.
2. I wouldn't say that the man was a willing volunteer since his _____ to go on stage was written all over his face.

(a) Tedious
(b) Reluctance
(c) Lively
(d) Staggered
(e) Procure

Q3. Directions: Find out the most effective word from the given options to fill in the blanks of the following questions.

1. We keep rescheduling our picnic because of the _____ rainstorms.
2. According to Bipin, his wife is a _____ complainer who has a negative opinion about everything.

(a) Advance
(b) Wary
(c) Persistent
(d) Inquisitive
(e) Cautious

Q4. Directions: Find out the most effective word from the given options to fill in the blanks of the following questions.

1. Let us hope justice will _____ so the killer will be prosecuted to the fullest extent of the law.
2. If logical minds do not _____, a major war will break out between the two largest gangs in the city.

(a) Prevail
(b) Proliferation
(c) Favoritism
(d) Declined
(e) Travail

Q5. Read the sentence given below to find out if it contains an error. The error, if any, will be in one part of the sentence. if the sentence is error free, select No error or option 5. Ignore errors of punctuation if any.

Dogs live on (A) their nose, (B) so smell is (C) very important. (D) No Error (E)

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

Q6. Read the sentence given below to find out if it contains an error. The error, if any, will be in one part of the sentence. if the sentence is error free, select No error or option 5. Ignore errors of punctuation if any.

Your sister (A) lives in (B) Spain, (C) Isn't she? (D) No Error (E)

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

Q7. Read the sentence given below to find out if it contains an error. The error, if any, will be in one part of the sentence. if the sentence is error free, select No error or option 5. Ignore errors of punctuation if any.

He will be (A) in a grumpy (B) mood since (C) he got up. (D) No Error (E)

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

Q8. Read the sentence given below to find out if it contains an error. The error, if any, will be in one part of the sentence. if the sentence is error free, select No error or option 5. Ignore errors of punctuation if any.

The opening to the (A) cave was only (B) a narrow hole (C) among two rocks. (D) No Error (E)

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

Directions

Directions: Rearrange the five jumbled sentences around the fixed sentence (B is fixed as the 2nd sentence) to make a logical paragraph.

A. Critics argue that AI makes human writing lazy and repetitive.

B. Their ability to text in seconds has raised productivity targets.

C. Today, workers regularly rely on algorithms to write emails and reports.

D. Supporters counter that AI frees people from tedious drafting work.

E. This ongoing debate forces us to rethink what real authorship means.

F. AI writing models have entered workplace routines everywhere.

Q9. Which of the following is the FIRST sentence after rearrangement?

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

YourMockTest.com — Free Study Material

Q10. Which of the following is the THIRD sentence after rearrangement?

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

Q11. Which of the following is the FOURTH sentence after rearrangement?

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

Q12. Which of the following is the FIFTH sentence after rearrangement?

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

Q13. Which of the following is the SIXTH (LAST) sentence after rearrangement?

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

Q14. Directions: Select the phrase from the options below that should replace the underlined phrase in the sentence to make it grammatically and contextually correct. If the sentence is already correct, select 'No correction required' as your answer.

The disparity between the standard of living of the poor and the rich has widen in the last few years.

(a) have widen
(b) have widened
(c) has widened on
(d) has widened
(e) No correction required

Q15. Directions: Select the phrase from the options below that should replace the underlined phrase in the sentence to make it grammatically and contextually correct. If the sentence is already correct, select 'No correction required' as your answer.

As the police officer was too personally involved, the higher authorities including some government officials decided to removing him from the case.

(a) remove himself from
(b) removed him from
(c) remove him from
(d) remove him on
(e) No correction required

Q16. Directions: Select the phrase from the options below that should replace the underlined phrase in the sentence to make it grammatically and contextually correct. If the sentence is already correct, select 'No correction required' as your answer.

In a bilateral meeting, Russia and India signed three Memorandum of Understanding to boost cooperation against various vital sectors, including energy, trade, and arms.

(a) From

YourMockTest.com — Free Study Material

(b) Upon
(c) In
(d) Beside
(e) No correction required

Q17. Directions: Select the phrase from the options below that should replace the underline phrase in the sentence to make it grammatically and contextually correct. If the sentence is already correct, select 'No correction required' as your answer.

The cat enjoyed lounging on the couch, chasing after mice, and play in the garden during its free time.

(a) will play in the garden
(b) to play in the garden
(c) playing in the garden
(d) plays in the garden
(e) no correction required

Directions

Directions: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

The concept of cosmic inflation was proposed to resolve several (A) _____ paradoxes in Big Bang cosmology. During this ultra-rapid expansion phase in the early universe, tiny quantum fluctuations were stretched to macro-scales, laying the seeds for cosmic structure. Without this rapid expansion, the observed uniformity of the cosmic microwave background radiation would be fundamentally (B) ____. Astrophysicists rely on precise telemetry from space observatories to (C) _____ theoretical models against empirical data.

When observational anomalies arise, scientists are forced to (D) _____ long-standing assumptions about the early universe. This constant interplay between mathematical theory and empirical discovery continues to (E) ____ our understanding of origin events. Ultimately, confirming the exact mechanism of inflation remains one of the most (F) _____ goals in modern astrophysics.

Q18. Which of the following is the most appropriate option to fill in the blank labelled as (A)?

(a) trivial
(b) vexing
(c) rudimentary
(d) transparent
(e) negligible

Q19. Which of the following is the most appropriate option to fill in the blank labelled as (B)?

(a) inexplicable
(b) coherent
(c) intuitive
(d) self-evident
(e) predictable

Q20. Which of the following is the most appropriate option to fill in the blank labelled as (C)?

(a) fabricate
(b) disregard
(c) obfuscate
(d) calibrate
(e) dismantle

Q21. Which of the following is the most appropriate option to fill in the blank labelled as (D)?

(a) reify
(b) entrench
(c) scrutinize
(d) canonize
(e) ratify

YourMockTest.com — Free Study Material

Q22. Which of the following is the most appropriate option to fill in the blank labelled as (E)?

(a) impede
(b) ossify
(c) refine
(d) distort
(e) curtail

Q23. Which of the following is the most appropriate option to fill in the blank labelled as (F)?

(a) redundant
(b) elusive
(c) peripheral
(d) pedestrian
(e) accessible

Q24. There are five scattered segments of a sentence given below, Identify the correct sequence of the segments to form the complete sentence and mark it as your answer.

A. small as cutting a centimetre of
B. samsung, the pioneer in
C. microLED technology explained
D. hair into 200 smaller pieces
E. in a video that a microLED is as

(a) BADCE
(b) BCDAE
(c) ACDEB
(d) BCEAD
(e) CEBDA

Q25. There are five scattered segments of a sentence given below, Identify the correct sequence of the segments to form the complete sentence and mark it as your answer.

A. scripts that metamorphose and merge
B. the world is our stage and we
C. according to contexts and situations
D. interplay of roles, characters and
E. are witnessing the constant

(a) AECDB
(b) BECAD
(c) ABCDE
(d) BCDEA
(e) BEDAC

Q26. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. promotes
B. mental and physical health
C. regular exercise
D. and contributes to
E. overall well-being

(a) BCDEA
(b) EADCB
(c) CABDE
(d) DCEBA
(e) CBAED

YourMockTest.com — Free Study Material

Q27. 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.

The ambitious architect sought to integrate (A) locally sourced sustainable materials into the new blueprint, aiming to maximize (B) the structure's overall carbon footprint, minimize (C) natural sunlight exposure within the main lobby, and elevate (D) the building's modern aesthetic appeal.

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

Q28. 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.

The professor’s lucid (A) explanation helped the students grasp the complex (B) theory, which had previously seemed completely baffling (C) to the entire class (D).

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

Q29. 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.

Despite facing insurmountable (A) challenges, the team remained triumphant (B) and eventually emerged optimistic (C), proving that perseverance leads to success (D).

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

Q30. 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.

Researchers aim to stimulate (A) a novel vaccine to administer (B) a robust immune response, helping to neutralize (C) the virus and prevent widespread infection (D).

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

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.

Nearly 140 years ago, luxury rail travel was born not merely as a mode of transportation, but as a moving symbol of opulence, fine dining, and slow-paced elegance. Over the decades, however, as high-speed aviation and modern transit systems dominated global travel, the golden age of sleeper trains gradually faded, forcing several historic rail services to shutter their operations. Among these fell a legendary line that had once connected Europe’s most vibrant cultural capitals before going completely defunct due to financial mismanagement and dwindling passenger counts. Recognising the latent potential in nostalgic travel, a hospitality enterprise acquired the legacy brand, revitalised its classic carriages, and restarted the venture under a new identity: Bellovita. Traversing scenic landscapes with its flagship destination set for Paris, the resurrected luxury train

was tailored for affluent travellers seeking curated gastronomy and personal butler service.

Early operational years proved challenging; the brand struggled with low occupancy rates and high maintenance overheads, leaving industry analysts sceptical about whether a century-old travel model could succeed in a fast-paced market. Just as strategic investments began stabilising the business, the global pandemic delivered a catastrophic blow. Border closures and lockdowns brought international tourism to an unprecedented standstill, putting immense financial strain on the hospitality sector. While mainstream airlines and domestic railways sought government _____ to survive, private niche ventures like Bellovita faced existential collapse. However, post-pandemic travel trends witnessed a dramatic shift. Experiential tourism surged as travellers abandoned rushed itineraries in favour of "slow travel." Capitalising on this momentum, fresh capital investments allowed Bellovita to modernise its infrastructure while preserving its 19th-century charm. Today, the luxury train business stands poised to capture a booming luxury market, proving that despite a century of turbulent history and modern disruptions, classical elegance has managed to endure as a viable business model to the very last.

Q31. According to the passage, what led to the revival of the luxury rail brand under a new identity?

(a) High-speed aviation
(b) Financial mismanagement
(c) Recognition of latent potential in nostalgic travel
(d) Dwindling passenger counts
(e) Global pandemic

Q32. Which flagship destination is Bellovita set to traverse as per the passage?

(a) London
(b) Venice
(c) Berlin
(d) Paris
(e) Rome

Q33. Which of the following has not been cited as a challenge faced by Bellovita in the passage?

(a) Low occupancy rates
(b) High maintenance overheads
(c) Financial mismanagement
(d) Border closures and lockdowns
(e) Lack of strategic investments

Q34. Which of the following sentences can be inferred from the passage?

A) The travel market favours quick itineraries and fast-paced experiences.
B) Experiential tourism has gained popularity as travellers prefer "slow travel."
C) The pandemic had a generally positive financial impact on the hospitality sector.
D) Government bailouts were readily available for private niche ventures like Bellovita.
E) Luxury rail travel has always been highly profitable throughout history.

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

Q35. What will fit in the blank taken from the passage: ‘While mainstream airlines and domestic railways sought government _____?’

(a) Loans
(b) Bailouts
(c) Grants
(d) Subsidies
(e) Tax reliefs

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

A) Bellovita's early operational years were financially prosperous and stable.

B) Nostalgic travel emerged as a significant trend post-pandemic.

C) High-speed aviation contributed to the resurgence of sleeper train travel.

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

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

A) Financial mismanagement caused the original rail service to become defunct.

B) Bellovita's operator faced low maintenance overheads in its early years.

C) Bellovita's infrastructure was modernised yet retained its 19th-century charm.

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

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.

Nearly 140 years ago, luxury rail travel was born not merely as a mode of transportation, but as a moving symbol of opulence, fine dining, and slow-paced elegance. Over the decades, however, as high-speed aviation and modern transit systems dominated global travel, the golden age of sleeper trains gradually faded, forcing several historic rail services to shutter their operations. Among these fell a legendary line that had once connected Europe’s most vibrant cultural capitals before going completely defunct due to financial mismanagement and dwindling passenger counts. Recognising the latent potential in nostalgic travel, a hospitality enterprise acquired the legacy brand, revitalised its classic carriages, and restarted the venture under a new identity: Bellovita. Traversing scenic landscapes with its flagship destination set for Paris, the resurrected luxury train was tailored for affluent travellers seeking curated gastronomy and personal butler service.

Early operational years proved challenging; the brand struggled with low occupancy rates and high maintenance overheads, leaving industry analysts sceptical about whether a century-old travel model could succeed in a fast-paced market. Just as strategic investments began stabilising the business, the global pandemic delivered a catastrophic blow. Border closures and lockdowns brought international tourism to an unprecedented standstill, putting immense financial strain on the hospitality sector. While mainstream airlines and domestic railways sought government _____ to survive, private niche ventures like Bellovita faced existential collapse. However, post-pandemic travel trends witnessed a dramatic shift. Experiential tourism surged as travellers abandoned rushed itineraries in favour of "slow travel." Capitalising on this momentum, fresh capital investments allowed Bellovita to modernise its infrastructure while preserving its 19th-century charm. Today, the luxury train business stands poised to capture a booming luxury market, proving that despite a century of turbulent history and modern disruptions, classical elegance has managed to endure as a viable business model to the very last.

Q38. Which of the following words is similar in meaning to "last" in the context of the passage?

(a) Previous
(b) Final
(c) Continue
(d) Endure
(e) Ultimate

Q39. Which of the following words is similar in meaning to "poised" in the context of the passage?

(a) Unprepared
(b) Balanced
(c) Ready
(d) Waiting
(e) Unsteady

Q40. Which of the following words is opposite in meaning to "survive" in the context of the passage?

(a) Thrive
(b) Persist
(c) Manage
(d) Endure
(e) Perish

QUANTITATIVE APTITUDE

Directions

The following table shows the average of the total number of HP, Dell, and Lenovo laptops sold by four different shops, the total number of Lenovo laptops sold by four shops, and the ratio of the total number of Dell to HP laptops sold.

Shop	The average of the total number of HP, Dell, and Lenovo laptops sold	The total number of Lenovo laptops sold	The ratio of the total number of Dell to HP laptops sold
Shop A	450	390	5: 7
Shop B	460	480	4: 5
Shop C	640	600	6: 5
Shop D	540	540	5: 4

Q41. Find the average of the total number of Lenovo laptops sold by Shop A, Dell laptops sold by Shop C, and HP laptops sold by Shop C together.

(a) 540
(b) 560
(c) 570
(d) 590
(e) 600

Q42. The total number of Dell laptops sold by shop D is what percent more than the total number of HP laptops sold by shop A?

(a) 6.25%
(b) 7.14%
(c) 8.33%
(d) 10%
(e) 12.5%

Q43. If the total number of Dell laptops sold by shop E is 20% more than that by shop B and the total number of HP laptops sold by shop E is 80% of that by shop D, then find the average of the total number of Dell and HP laptops sold by shop E.

(a) 420
(b) 432
(c) 440
(d) 450
(e) 460

Q44. Find the ratio of the total number of HP laptops sold by shop A and shop C together to the total number of Dell laptops sold by shop C and shop D together.

(a) 27:31
(b) 28:33
(c) 29:33
(d) 31:35
(e) 33:37

YourMockTest.com - Free Study Material

Q45. If the total number of Dell laptops sold by shop A is 80% of the total Dell laptops in shop X and the total number of HP laptops sold by shop A is 50% of the total HP laptops in shop X, then find the total number of Dell and HP laptops in shop X.

(a) 1500
(b) 1580
(c) 1620
(d) 1680
(e) 1720

Q46. A seller sold X kg of rice at Rs. 240/kg. If he purchased the rice at Rs. 8(X + 5)/kg, then his profit percentage is 20%. Find the loss percentage of the seller, when he sold the rice at Rs. 4X/kg.

(a) 50%
(b) 60%
(c) 70%
(d) 75%
(e) 80%

Q47. In a city, 65% of the population read newspapers. 50% of the population are males. If 80% of the males read newspapers, then what percentage of the females do not read newspapers?

(a) 40%
(b) 45%
(c) 50%
(d) 55%
(e) 60%

Q48. If a circle is cut into two equal parts, then the circumference of the semicircle is 6.75X cm and the area of the semicircle is decreased by 693 cm^2. If the radius of a cylinder is ½ times the radius of the circle, and the height of the cylinder is 9X/8 cm, then find the curved surface area of the cylinder.

(a) 2376 cm^2
(b) 2156 cm^2
(c) 2254 cm^2
(d) 2320 cm^2
(e) 2424 cm^2

Q49. Train P starts from station A towards station B. 1 hour later, train Q starts from station B towards station A. Both the trains meet 5 hours after train Q starts. The ratio of the initial speeds of train P and train Q is 5:4, respectively, and the speed of train Q decreases every hour at a rate of 20 km per hour. Find the initial speed of train Q if the distance between both stations is 1800 km.

(a) 140 km/hr
(b) 150 km/hr
(c) 160 km/hr
(d) 180 km/hr
(e) 120 km/hr

Q50. Three pipes, A, B and C alone can fill a tank in 6, 9 and 18 hours respectively. If the pipes are opened in succession starting with A at 1:00 PM, B at 2:00 PM and C at 3:00 PM, and thereafter all remain open, at what time will the tank be fully filled?

(a) 05:20 PM
(b) 04:40 PM
(c) 05:00 PM
(d) 04:30 PM
(e) None of these

Directions

Read the data carefully and answer the following question.

YourMockTest.com — Free Study Material

Below given bar graph shows the quantity of fabric (silk and cotton) manufactured by different factories per day.

[Figure: see this question online]

The following table shows the ratio between silk fabric and cotton fabric manufactured by each factory per day.

Factory	Silk fabric: Cotton fabric
V	5:7
W	8:7
X	3:4
Y	2:7
Z	11:13

Q51. Find the sum of total quantity of silk fabric manufactured by factory W and X together.

(a) 3200 m
(b) 3400 m
(c) 3300 m
(d) 3500 m
(e) 3600 m

Q52. Find the difference between the quantity of cotton fabric manufactured by factory Y and Z.

(a) 150 m
(b) 200 m
(c) 250 m
(d) 300 m
(e) 350 m

Q53. On a certain day, 20% more quantity of silk fabric manufactured and 20% less quantity of cotton fabric manufactured by factory V. Find the total quantity of silk and cotton fabric manufactured on that day.

(a) 2320 m
(b) 2260 m
(c) 2380 m
(d) 2400 m
(e) 2240 m

Q54. Find the average of the quantity of silk fabric manufactured by factory Y and the quantity of cotton fabric manufactured by factory Z together.

(a) 1500 m
(b) 1600 m
(c) 1700 m
(d) 1800 m
(e) 1900 m

Q55. Total quantity of silk fabric manufactured by factory Z is how much percentage of the quantity of cotton fabric manufactured by factory W?

(a) 98.57%
(b) 101.25%
(c) 104.76%
(d) 107.14%
(e) 110.50%

Q56. Ravi received an amount of Rs. 11236 by depositing a sum of Rs. 10000 for 2 years in a bank which provides R% rate of interest compounded annually. What is the simple interest earned on Rs. 15000 at (R + 3)% rate of interest after (R + 5) years?

(a) Rs. 14500

YourMockTest.com — Free Study Material

(b) Rs. 14850
(c) Rs. 15200
(d) Rs. 15600
(e) Rs. 14000

Q57. A box contains 7 white balls and 13 red balls. The average weight of the white balls is 9 grams, and the average weight of the red balls is 28 grams. Two white balls weighing X grams and Y grams are removed from the box, and three new red balls with an average weight of (Y - 2) grams are added. The new average weight of all the balls in the box becomes 20 grams. Here, X and Y are two distinct positive integers. Find the average weight of white balls that were removed from the box, if only Y is a prime number, and 20 > X > Y.

(a) 9 gm
(b) 10 gm
(c) 11 gm
(d) 12 gm
(e) None of these

Directions

Read the following data carefully and answer the questions.

The data is about the total number of students who participate in dancing, singing, and drama from three classes, i.e. Class X, Class IX, and Class VIII.

The ratio of the total number of students who participate in dancing from Class X to the total number of students who participate in drama from Class IX is 7 : 6. The ratio of the total number of students who participate in drama from Class VIII to those who participate in drama from Class X is 5 : 6. The sum of the total number of students who participated in dancing, singing, and drama together from Class VIII is 865 and the total number of students who participated in drama from all three classes together is 1086.

The total number of students who participated in dancing and singing from Class VIII is 50 and 75 respectively less than those who participated in drama from Class VIII. The total number of students who participated in singing from Class X is 25% more than the students who participated in dancing from Class VIII. The average of the total number of students who participated in dancing and singing from Class IX is equal to the total number of students who participated in drama from Class X. Also, the total number of students who participated in singing from Class IX is 20% less than the total number of students who participated in dancing from Class IX.

Q58. Find the average of the total number of students who participate in dancing from Class VIII, dancing from Class IX, and drama from Class X.

(a) 360
(b) 372
(c) 384
(d) 396
(e) 400

Q59. The total number of students who participate in drama from class X is what percent more than the total number of students who participate in singing from class X.

(a) 10.5%
(b) 11.75%
(c) 13.14%
(d) 15.25%
(e) 16.5%

Q60. Find the total number of students who participated in dancing, drama, and singing together from class IX.

(a) 1086
(b) 1120
(c) 1152
(d) 1184
(e) 1200

YourMockTest.com — Free Study Material

Q61. Find the difference between the total number of students who participate in singing from classes VIII and IX together and the total number of students who participate in dancing from class X.

(a) 167
(b) 177
(c) 187
(d) 197
(e) 207

Q62. The ratio of the total number of students who participate in dancing from classes VIII and X together to the total number of students who participate in singing from class X and drama from class IX together.

(a) 67:71
(b) 69:70
(c) 70:71
(d) 71:72
(e) 72:73

Q63. A and B started a business investing Rs. 60,000 and Rs. 1,00,000 respectively. After 6 months, C joined the business by investing Rs. 80,000 as capital and Rs. 16,000 as goodwill (premium for joining). The goodwill amount was shared by A and B in the ratio of their capitals at that time. If the profit at the end of the year is Rs. 2,70,000, then find C's share.

(a) Rs. 45,000
(b) Rs. 50,000
(c) Rs. 54,000
(d) Rs. 60,000
(e) Rs. 72,000

Q64. A container contains a mixture of milk and water in ratio 5 : 3 respectively. If 32 Liters of mixture are taken out from the container and after that mixed 12 Liters of water, then the ratio of milk to water becomes 3 : 2. Find the initial quantity of mixture.

(a) 280 L
(b) 320 L
(c) 360 L
(d) 400 L
(e) 240 L

Q65. A sum of Rs. X is distributed among P, Q and R in the ratio of (a + 1) : 2a : a respectively. The total amount received by R is in the denomination of Rs. 5, Rs. 2 and Rs. 0.5 coins. The total number of coins received is 2200, where the number of Rs. 2 coins is 250 more than the number of Rs. 5 coins and the ratio between the number of Rs. 0.5 coins and Rs. 5 coins is 11: 1. Find the value of X if the ratio of P's share to R's share is 6 : 5.

(a) Rs. 9975
(b) Rs. 10250
(c) Rs. 9850
(d) Rs. 10750
(e) Rs. 11250

Q66. Two equations I and II are given below in question. You have to solve these equations and give the answer.

I. $x^2 + 36x + 324 = 0$

II. $y^2 – 4y – 221 = 0$

(a) $x < y$
(b) $x > y$
(c) $x \leq y$
(d) $x \geq y$
(e) x = y or the relation between x and y can't be established.

YourMockTest.com — Free Study Material

Q67. In the given question, two equations numbered I and II are given. Solve both the equations and mark the appropriate answer.

I. x2 – 24x + 143 = 0

II. 6y2 – 25y + 26 = 0

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) x = y or relation between x and y can not be established.

Q68. Two equations I and II are given below in question. You have to solve these equations and give the answer.

I. $x^2 + 11x + 18 = 0$

II. $y^2 + 2y + 1 = 0$

(a) x < y
(b) x > y
(c) x ≤ y
(d) x ≥ y
(e) x = y or the relation between x and y can't be established.

Q69. 10 years ago, the ratio of the age of mother and daughter was 5: 2. 8 years hence, the respective ratio of the age of mother and daughter will become 7: 4. If the age of the father is 5 years more than the present age of the mother. Find the sum of the age of father and daughter 10 years ago.

(a) 81
(b) 79
(c) 68
(d) 77
(e) 76

Q70. If the difference between the time taken by the boat to cover 36 km upstream and the same distance downstream is 1 hr. If the ratio of the upstream speed to the downstream speed of the boat is 3: 4. Find the speed of the stream

(a) 3 kmph
(b) 1.5 kmph
(c) 2.5 kmph
(d) 4 kmph
(e) 2 kmph

REASONING ABILITY

Directions

Directions: Read the following information carefully and answer the questions given below:

Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year), but not necessarily in the same order.

Three persons were born between Y and X, who was born in a month having least number of days. Four Persons were born between W and V. W was born just before Y. S is just younger than V and was born on the month having even number of days. Number of persons were born between Z and S is same as the number of persons were born between Z and R. More than three persons were born between X and T. Q was born before U.

Q71. Who among the following person was born in April?

(a) T
(b) Y
(c) Z
(d) W
(e) Both 2 and 4

YourMockTest.com — Free Study Material

Q72. Which among the following statement(s) is/are true?

I. W was born on 9th April

II. V was born on 26th February

III. T was born after W

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

Q73. How many persons were born between Q and R on same date of Q?

(a) Two
(b) Three
(c) None
(d) One
(e) None of these

Q74. On which date and in which month was T born?

(a) 26th May
(b) 26th April
(c) 9th May
(d) 9th April
(e) 9th March

Q75. The number of persons were between Q and X is _____ than the number of persons were between Z and T.

(a) Two more
(b) One less
(c) Two less
(d) Three more
(e) One more

Directions

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

Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

C sits fourth to the right of the one who faces R. Only two persons sit between R and V. The person who sits immediate right of V faces the one who sits second to the right of H. Only four person sit between W and U, who sit to the left of V. As many persons sit to the right of G as to the left of T. The number of persons sitting between G and C is two less than the number of persons sitting between T and S. U doesn't sit adjacent to S. F sits immediate left of D. Neither B nor F faces W.

Q76. Who among the following person faces the one who sits third to the left of S?

(a) D
(b) The one who sits second to the right of G
(c) E
(d) The one who sits second to the left of B
(e) C

Q77. Which of the following statement(s) is/are TRUE as per the given arrangement?

I). B faces S

II). No one sits to the right of U

III). D sits at one of the extreme ends of the row.

(a) Only I
(b) Only I and II

YourMockTest.com — Free Study Material

(c) Only I and III
(d) Only II and III
(e) All I, II and III are true

Q78. 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) W and E
(b) T and F
(c) G and V
(d) U and H
(e) C and Q

Q79. Who among the following person sits opposite to T?
(a) The one who sits immediate right of C
(b) E
(c) The one who sits immediate left of B
(d) D
(e) C

Q80. What is the position of H with respect to G?
(a) Immediate left
(b) Fourth to the right
(c) Third to the right
(d) Fourth to the left
(e) Third to the left

Q81. If 1 is added to each even digit and 2 is subtracted from each prime digit in the number 63854687, then what is the sum of digits which is 3^(rd) and 5^(th) from left and right respectively?
(a) 10
(b) 16
(c) 12
(d) 11
(e) 8

Directions

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

Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

Only one person buys fruit between T and the one who buys Mango. At most two persons buys before T. X buys immediately before T. The one who bought orange, buys it three persons after the one who buys Mango. U buys kiwi, two persons before W. W doesn't buy orange. As many persons buys fruit before Grapes as after the one who buys Litchi. X and T doesn't buy Grapes and Pear. Z buys immediately before V.

Q82. The person who bought Banana, buys it on which day?
(a) Wednesday
(b) Tuesday
(c) Sunday
(d) Monday
(e) Saturday

Q83. The number of persons buy fruit before Y is same as the number of persons buy fruit between X and the one who bought _____.
(a) Litchi
(b) Pear

YourMockTest.com – Free Study Material

(c) Mango
(d) Orange
(e) kiwi

Q84. Who among the following person bought Mango?

(a) X
(b) Z
(c) W
(d) Y
(e) None of these

Q85. Who among the following buys fruit two days after Y?

(a) The one who likes Grapes
(b) V
(c) The one who likes Kiwi
(d) U
(e) W

Q86. How many persons buy fruit between V and the one who likes Litchi

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

Directions

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

Point Q is 7 km to the south of point X. Point E is 1 km to the west of point F. Point G is 6 km to the east of point H. Point H is 4 km to the south of point E. Point T is 7 km to the south of point F. Point Q is 3 km to the north of point T. Point C is 9 km to the east of point T. Point J is 7 km to the north of point Z. Point K is 3 km to the north of point C. Point Z is 3 km to the south of point G.

Q87. What is the direction of point G from point X?

(a) South-East
(b) North-East
(c) North-West
(d) South-West
(e) East

Q88. What is the distance between points T and X?

(a) 5 km
(b) 7 km
(c) 4 km
(d) 6 km
(e) 10 km

Q89. What is the position of point Z with respect to the position of point T?

(a) 4 km North
(b) 3 km South
(c) 5 km East
(d) 8 km South
(e) 7 km North

YourMockTest.com — Free Study Material

Directions

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

Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

Z works in the same department as S but doesn't work in marketing. W and U work in different departments. U doesn't work in finance. W and R work in the same department but not with S. Z and U work in different departments. R and X doesn't work in operations and both of them work in different departments. Q works in operations. Not more than two persons works with U. Y and V work in the same department. V doesn't work in marketing. S and T work in different departments

Q90. If W is related to Y and in the same way Q is related to S then who among the following is related to T?

(a) R
(b) Q
(c) V
(d) Y
(e) X

Q91. Who among the following work in the Marketing department?

(a) W, R, Y
(b) X, U, W
(c) X, U, T
(d) U, T, R
(e) T, X, W

Q92. Which of the following combinations is correct?

(a) V – Operations
(b) W – Marketing
(c) Z – Finance
(d) T – Finance
(e) S – Operations

Q93. In which department does T works?

(a) Operations
(b) Marketing
(c) Finance
(d) Either Marketing or Finance
(e) Either Operations or Finance

Q94. Which of the following statements is true?

(a) U and R work in the same department.
(b) Z and S work in the different departments.
(c) Y works in Finance department.
(d) T and R work in Marketing department.
(e) U works in Operations department.

Q95. How many such pairs of letters are there in the word 'IMPORTANT', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet?

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

Directions

Directions: Read the following information carefully and answer the questions given below:

YourMockTest.com — Free Study Material

Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

Box Q is kept above the box which has Blue colour. As many boxes are kept above box Q as below box R. The box which has Blue colour is kept three boxes above the box P. The box which has White colour is kept immediately above box R. Four boxes are kept between box R and the box which has Black colour. The number of boxes kept between the box S and box T is one more than the number of boxes kept between box T and the box which has White colour. Box V is kept below the box which has Brown colour but not just below. Box U is kept three boxes above the box which has Red colour. The box which has Green colour is kept above the box which has Grey colour.

Q96. How many boxes are kept between box U and the box which has Grey colour?

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

Q97. Which among the following statement (s) is/are not true?

I. Box P is kept above box S
II. Odd number of boxes are kept between box Q and box T
III. Box Q has Brown colour

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

Q98. Which among the following box is kept three boxes below box Q?

(a) Box T
(b) The box which contains Blue colour
(c) Box R
(d) Box V
(e) The box which contains Black colour

Q99. Which of the following combination is correct?

(a) Box R- Grey colour
(b) Box V- Red colour
(c) Box Q- Green colour
(d) Box P- Black colour
(e) None is correct

Q100. Which among the following box has Green colour?

(a) Box T
(b) Box Q
(c) Box R
(d) Box V
(e) None of these

ANSWER KEY

1	b	2	b	3	c	4	a	5	a	6	d	7	a	8	d	9	b	10	c
11	a	12	d	13	e	14	d	15	c	16	c	17	c	18	b	19	a	20	d
21	c	22	c	23	b	24	d	25	e	26	c	27	c	28	e	29	b	30	a
31	c	32	d	33	e	34	b	35	b	36	b	37	b	38	b	39	c	40	e

41	c	42	b	43	b	44	c	45	c	46	b	47	c	48	a	49	c	50	b
51	c	52	b	53	b	54	c	55	c	56	b	57	c	58	b	59	c	60	c
61	c	62	c	63	c	64	b	65	a	66	a	67	a	68	a	69	c	70	b
71	e	72	d	73	b	74	a	75	b	76	b	77	c	78	d	79	a	80	e
81	c	82	d	83	b	84	d	85	a	86	c	87	a	88	e	89	c	90	e
91	c	92	e	93	b	94	c	95	d	96	c	97	a	98	d	99	a	100	d

SOLUTIONS

Q1. Answer: (b) Retain

The solution is in Hindi. Read it online.

Q2. Answer: (b) Reluctance

The solution is in Hindi. Read it online.

Q3. Answer: (c) Persistent

The solution is in Hindi. Read it online.

Q4. Answer: (a) Prevail

The solution is in Hindi. Read it online.

Q5. Answer: (a) A

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

Key Points

• Replace Live on with Live by.

• Live on - subsist on a particular type of food.

• Example- He lives entirely on vegetables these days.

• Live by - to agree with and follow (something, such as a set of beliefs), to survive by (doing something)

• Example- He tried to live by his faith.

• They were ancient people who lived by hunting and gathering.

• Hence, option 1 is the correct answer.

The correct sentence is: Dogs live by their nose, so smell is very important.

Q6. Answer: (d) D

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

Key Points

• Replace Isn't with Doesn't in part D.

• When the verb in the main sentence is in the present simple we form the question tag with do/does.

• We shouldn't use any name in the question tag, use pronouns in place of that.

Ex: You play the guitar, don't you?

Sania likes tennis, doesn't she?

• Hence, option 4 is the correct answer.

Thus the correct sentence is: Your sister lives in Spain, doesn't she?

Additional Information

• Question tags are short questions at the end of statements.

• They are mainly used in speech when we want to: confirm that something is true or not, or to encourage a reply from the person we are speaking to.

• Question tags are formed with the auxiliary or modal verb from the statement and the appropriate subject.

• A positive statement is followed by a negative question tag.

• Jack is from Spain, isn't he?

• Mary can speak English, can't she?

• A negative statement is followed by a positive question tag.

• They aren't funny, are they?

YourMockTest.com — Free Study Material

• He shouldn't say things like that, should he?

Q7. Answer: (a) A

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

Key Points

• Replace will be with has been.

• The keyword 'since' indicates the subordinate clause in the perfect continuous tense.

• The sentence structure of the Present Perfect Continuous tense is Subject + HAS/HAVE + BEEN + Verb-ING. And this structure is what suits the given sentence.

• So, option 1 is the correct answer.

The correct sentence is: He has been in a grumpy mood since he got up

Q8. Answer: (d) D

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

Key Points

• Replace among with between in part D.

• Between is typically used when referring to two things, like "between a rock and a hard place," while among is used for a greater number.

• Ex: Put your head down between your knees.

• The bees were buzzing among the flowers.

• Here, we are talking about two rocks, therefore between is the correct preposition to be used here.

• Hence, the correct answer is option 4.

The correct sentence is: The opening to the cave was only a narrow hole between two rocks.

Q9. Answer: (b) F

The correct answer is Option 2.

Key Points

• The paragraph explores the integration of artificial intelligence into workplace writing and the ongoing debate surrounding its usage.

• Sentence F is the first sentence as it broadly introduces the core topic—AI writing tools entering workplaces:

• "AI writing models have entered workplace routines everywhere."

• Sentence B is fixed as the 2nd sentence, expanding on how these models function and impact expectations:

• "Their ability to text in seconds has raised productivity targets."

• Sentence C is the third sentence, providing a concrete real-world example of this daily reliance:

• "Today, workers regularly rely on algorithms to write emails and reports."

• Sentence A is the fourth sentence, introducing the critical perspective against AI usage:

• "Critics argue that AI makes human writing lazy and repetitive."

• Sentence D is the fifth sentence, presenting the opposing view defending AI tools:

• "Supporters counter that AI frees people from tedious drafting work."

• Sentence E is the sixth sentence, concluding the discussion by summarizing the broader impact of this debate:

• "This ongoing debate forces us to rethink what real authorship means."

• The correct sequence is F - B - C - A - D - E, making F the FIRST sentence.

Coherent paragraph after rearrangement:

"AI writing models have entered workplace routines everywhere. Their ability to text in seconds has raised productivity targets. Today, workers regularly rely on algorithms to write emails and reports. Critics argue that AI makes human writing lazy and repetitive. Supporters counter that AI frees people from tedious drafting work. This ongoing debate forces us to rethink what real authorship means."

Q10. Answer: (c) C

The correct answer is Option 3.

Key Points

• The paragraph explores the integration of artificial intelligence into workplace writing and the ongoing debate surrounding its usage.

YourMockTest.com — Free Study Material

• Sentence F is the first sentence as it introduces the broad subject of AI tools in professional settings:
• "AI writing models have entered workplace routines everywhere."
• Sentence B is fixed as the 2nd sentence, elaborating on how these models operate and shift productivity demands:
• "Their ability to text in seconds has raised productivity targets."
• Sentence C is the third sentence, highlighting the specific routine tasks workers delegate to these tools:
• "Today, workers regularly rely on algorithms to write emails and reports."
• Sentence A is the fourth sentence, opening the critical side of the debate:
• "Critics argue that AI makes human writing lazy and repetitive."
• Sentence D is the fifth sentence, presenting the contrasting view held by advocates:
• "Supporters counter that AI frees people from tedious drafting work."
• Sentence E is the sixth sentence, concluding with the broader philosophical question raised by this dialogue:
• "This ongoing debate forces us to rethink what real authorship means."
• The correct sequence is F - B - C - A - D - E, making C the THIRD sentence.

Coherent paragraph after rearrangement:

"AI writing models have entered workplace routines everywhere. Their ability to text in seconds has raised productivity targets. Today, workers regularly rely on algorithms to write emails and reports. Critics argue that AI makes human writing lazy and repetitive. Supporters counter that AI frees people from tedious drafting work. This ongoing debate forces us to rethink what real authorship means."

Q11. Answer: (a) A

The correct answer is Option 1.

Key Points

• The paragraph explores the integration of artificial intelligence into workplace writing and the ongoing debate surrounding its usage.
• Sentence F is the first sentence as it introduces the broad topic of AI writing tools in modern professional life:
• "AI writing models have entered workplace routines everywhere."
• Sentence B is fixed as the 2nd sentence, explaining how these models shift expectations and productivity standards:
• "Their ability to text in seconds has raised productivity targets."
• Sentence C is the third sentence, illustrating how employees utilize these tools for daily tasks:
• "Today, workers regularly rely on algorithms to write emails and reports."
• Sentence A is the fourth sentence, introducing the primary criticism against using AI for writing:
• "Critics argue that AI makes human writing lazy and repetitive."
• Sentence D is the fifth sentence, presenting the opposing counter-argument in defense of AI:
• "Supporters counter that AI frees people from tedious drafting work."
• Sentence E is the sixth sentence, concluding the discussion by reflecting on the broader debate:
• "This ongoing debate forces us to rethink what real authorship means."
• The correct sequence is F - B - C - A - D - E, making A the FOURTH sentence.

Coherent paragraph after rearrangement:

"AI writing models have entered workplace routines everywhere. Their ability to text in seconds has raised productivity targets. Today, workers regularly rely on algorithms to write emails and reports. Critics argue that AI makes human writing lazy and repetitive. Supporters counter that AI frees people from tedious drafting work. This ongoing debate forces us to rethink what real authorship means."

Q12. Answer: (d) D

The correct answer is Option 4.

Key Points

• The paragraph explores the integration of artificial intelligence into workplace writing and the ongoing debate surrounding its usage.
• Sentence F is the first sentence as it introduces the broad topic of AI writing tools in modern professional life:
• "AI writing models have entered workplace routines everywhere."
• Sentence B is fixed as the 2nd sentence, explaining how these models shift expectations and productivity standards:
• "Their ability to text in seconds has raised productivity targets."
• Sentence C is the third sentence, illustrating how employees utilize these tools for daily tasks:
• "Today, workers regularly rely on algorithms to write emails and reports."

• Sentence A is the fourth sentence, introducing the primary criticism against using AI for writing:
• "Critics argue that AI makes human writing lazy and repetitive."
• Sentence D is the fifth sentence, presenting the opposing counter-argument in defense of AI:
• "Supporters counter that AI frees people from tedious drafting work."
• Sentence E is the sixth sentence, concluding the discussion by reflecting on the broader debate:
• "This ongoing debate forces us to rethink what real authorship means."
• The correct sequence is F - B - C - A - D - E, making D the FIFTH sentence.

Coherent paragraph after rearrangement:

"AI writing models have entered workplace routines everywhere. Their ability to text in seconds has raised productivity targets. Today, workers regularly rely on algorithms to write emails and reports. Critics argue that AI makes human writing lazy and repetitive. Supporters counter that AI frees people from tedious drafting work. This ongoing debate forces us to rethink what real authorship means."

Q13. Answer: (e) E

The correct answer is Option 5.

Key Points

• The paragraph explores the integration of artificial intelligence into workplace writing and the ongoing debate surrounding its usage.
• Sentence F is the first sentence as it introduces the broad topic of AI writing tools in modern professional life:
• "AI writing models have entered workplace routines everywhere."
• Sentence B is fixed as the 2nd sentence, explaining how these models shift expectations and productivity standards:
• "Their ability to text in seconds has raised productivity targets."
• Sentence C is the third sentence, illustrating how employees utilize these tools for daily tasks:
• "Today, workers regularly rely on algorithms to write emails and reports."
• Sentence A is the fourth sentence, introducing the primary criticism against using AI for writing:
• "Critics argue that AI makes human writing lazy and repetitive."
• Sentence D is the fifth sentence, presenting the opposing counter-argument in defense of AI:
• "Supporters counter that AI frees people from tedious drafting work."
• Sentence E is the sixth sentence, concluding the discussion by reflecting on the broader debate:
• "This ongoing debate forces us to rethink what real authorship means."
• The correct sequence is F - B - C - A - D - E, making E the SIXTH (LAST) sentence.

Coherent paragraph after rearrangement:

"AI writing models have entered workplace routines everywhere. Their ability to text in seconds has raised productivity targets. Today, workers regularly rely on algorithms to write emails and reports. Critics argue that AI makes human writing lazy and repetitive. Supporters counter that AI frees people from tedious drafting work. This ongoing debate forces us to rethink what real authorship means."

Q14. Answer: (d) has widened

The correct answer is "has widened".

Key Points

• The correct phrase to replace "has widen" is "has widened."
• In the given sentence, "disparity between the standard of living" is the singular subject.
• So, the singular form of the verb should be used, Now, "has" is followed by the past participle.
• Hence, the correct phrase to be substituted is "has widened".

Therefore, the correct answer is "Option 4".

Correct Sentence: "The disparity between the standard of living of the poor and the rich has widened in the last few years."

Additional Information

• Use of "few", "a few" and "the few":
• Few: Hardly any
• a few: some but not many (it has a positive meaning)
• the few: all that is available.

Q15. Answer: (c) remove him from

The correct answer is "Option 3".

Key Points

• The correct phrase to be substituted in the above sentence is "remove him from".

• We use the base form of the verb "remove" after the preposition "to" in the above sentence instead of "removing".

• Now, the objective case of "he" i.e. "him" should be used, and lastly "remove" takes the preposition "from".

• Hence, "remove him from" is the correct phrase to be substituted.

Therefore, the correct answer is "Option 3".

Correct Sentence: "As the police officer was too personally involved, the higher authorities including some government officials decided to remove him from the case."

Additional Information

• When an action follows another action in English, it's common to use the infinitive verb form (to + base form of the verb) to indicate purpose or intention.

• Example: She agreed to help with the project.

• In this sentence, "agreed" is the main verb, and "to help" is the infinitive verb form that follows "agreed."

Q16. Answer: (c) In

The correct answer is "Option 3".

Key Points

• The correct preposition to replace 'against' would be 'in'.

• Here, the preposition 'in' refers to being involved or connected with a particular subject or activity.

• Against refers to disagreeing with a plan or activity.

• Example: She spoke against the decision to close the college.

• Hence, the correct phrase which should be substituted is "in".

Therefore, the correct answer is "Option 3".

Correct Sentence: "In a bilateral meeting, Russia and India signed three Memorandum of Understanding to boost cooperation in various vital sectors, including energy, trade, and arms."

Additional Information Let's look at where the other prepositions are used:

• “From” is a preposition that indicates the origin, source, or starting point.

• “Upon” is a more formal or synonym for “on” or “when.”

• “Beside” is a preposition that means “next to” or “by the side of.”

Q17. Answer: (c) playing in the garden

The correct answer is Option 3.

Key Points

• The original sentence is attempting to list the activities that the cat enjoys in its free time using the structure of parallelism.

• Parallelism means balancing two or more ideas or arguments that are equally important by presenting them in the same grammatical structure.

• In the original sentence, the phrases "lounging on the couch" and "chasing after mice" are in the -ing form (present participle), which indicates ongoing activities.

• To maintain consistency and correct the sentence, "play in the garden" should also be in the -ing form, making it "playing in the garden."

Therefore, the correct answer is playing in the garden.

Additional Information

• will play in the garden: This option creates a future tense, which does not fit with the other list items that describe current, ongoing activities.

• to play in the garden: This option introduces an infinitive form, breaking the parallel structure of the list which is based on present participles (-ing form).

• plays in the garden: While this option uses the present tense, it does not match the ongoing action portrayed by the other activities in the list which are described using present participles.

Q18. Answer: (b) vexing

The solution is in Hindi. Read it online.

Q19. Answer: (a) inexplicable

The solution is in Hindi. Read it online.

Q20. Answer: (d) calibrate

The solution is in Hindi. Read it online.

Q21. Answer: (c) scrutinize

The solution is in Hindi. Read it online.

Q22. Answer: (c) refine

The solution is in Hindi. Read it online.

Q23. Answer: (b) elusive

The solution is in Hindi. Read it online.

Q24. Answer: (d) BCEAD

The correct answer is option 4.

Key Points

• Out of the given segments -

• Part B is the opening segment because it doesn't connect with any other given segments and thus, it is the introductory segment.

• Part C is the second segment because it is in continuation with part B and it talks about Samsung being a pioneer in microLED technology.

• Part E is the third segment because it is in continuation with part C and it talks about Samsung explaining microLED technology in a video.

• Part A and Part D are the fourth and fifth segments respectively because they are in continuation with part E and they talk about Samsung describing microLED as small as cutting a centimeter of hair into 200 smaller pieces.

• Hence, the correct sequence is BCEAD.

The complete sentence after rearrangement would be - Samsung, the pioneer in microLED technology explained in a video that a microLED is as small as cutting a centimetre of hair into 200 smaller pieces.

Hint

• As + adjective + as (conjunction) is used to compare things that are similar in proportion.

• For Example -

• She is as tall as her brother.

Q25. Answer: (e) BEDAC

The correct answer is option 5.

Key Points

• Out of the given segments -

• Part B is the opening segment because it doesn't connect with any other given segments and thus, it is the introductory segment.

• Part E and Part D are the second and third segments respectively because they are in continuation with part B and they talk about the world being our stage and we are witnessing the constant interplay of roles and characters.

• Part A is the fourth segment because it is in continuation with part D and it talks about the world being a stage we are witnessing scripts metamorphosing and merging.

• Part C is the fifth segment because it is in continuation with part A and it talks about us witnessing scripts metamorphose and merge according to the context and situations.

• Hence, the correct sequence is BEDAC.

The complete sentence after rearrangement would be - The world is our stage and we are witnessing the constant interplay of roles, characters and scripts that metamorphose and merge according to contexts and situations.

Hint

• How to solve sentence jumble?

• Firstly, look for the segment which is independent and doesn't connect with any other segments or the option with has the subject matter. This will be the opening segment of the sentence.

• Then, you need to look for connections between the given segments

• If there is a segment that is concluding the idea given in other segments that will be the ending segment.

YourMockTest.com — Free Study Material

Q26. Answer: (c) CABDE

The correct answer is 3) CABDE.

Key Points

• Segment C establishes the subject matter, i.e., 'regular exercise'. Hence, it will be the first part after rearrangement.

• Part A mentions that regular exercise promotes something, which follows C.

• Part B refers to mental and physical health, which connects to the promotion mentioned in A.

• Part D talks about contributing to something, which follows B.

• Part E concludes the sentence by stating that regular exercise contributes to overall well-being.

• Part B concludes the sentence by stating that regular exercise promotes mental and physical health.

Correct rearrangement of segments is: Regular exercise promotes mental and physical health and contributes to overall well-being.

Q27. Answer: (c) B-C

The solution is in Hindi. Read it online.

Q28. Answer: (e) No interchange required

The solution is in Hindi. Read it online.

Q29. Answer: (b) B-C

The solution is in Hindi. Read it online.

Q30. Answer: (a) A-B

The solution is in Hindi. Read it online.

Q31. Answer: (c) Recognition of latent potential in nostalgic travel

The correct answer is Option C.

Key Points

• The passage explains that the original legendary rail line went defunct due to financial mismanagement and low passenger numbers.

• The revival occurred when a hospitality enterprise stepped in. The specific motivation mentioned is: "Recognising the latent potential in nostalgic travel, a hospitality enterprise acquired the legacy brand..."

• This recognition led to the revitalization of the carriages and the restart of the venture under the new identity, Bellovita.

• Therefore, the catalyst for the revival was the identified value in the nostalgia associated with luxury rail travel.

Therefore, the correct answer is C.

Correct Sentence from the Passage: "Recognising the latent potential in nostalgic travel, a hospitality enterprise acquired the legacy brand, revitalised its classic carriages, and restarted the venture under a new identity: Bellovita."

Additional Information

• A: High-speed aviation – This is mentioned as a reason why the golden age of sleeper trains originally faded, not a reason for the revival.

• B: Financial mismanagement – This was one of the reasons the original line went defunct, leading to its closure, not its revival.

• D: Dwindling passenger counts – Similar to financial mismanagement, this contributed to the failure of the original service.

• E: Global pandemic – The pandemic actually threatened the survival of the newly revived brand; it was not the cause of the initial revival.

Q32. Answer: (d) Paris

The correct answer is Option D.

Key Points

• The passage explicitly mentions the specific destination for the resurrected luxury train service.

• According to the text: "Traversing scenic landscapes with its flagship destination set for Paris, the resurrected luxury train was tailored for affluent travellers..."

• This confirms that Paris is the primary destination mentioned in the context of Bellovita's operations.

• Other cities like London, Venice, Berlin, or Rome are not mentioned as the flagship destination in the provided passage.

Therefore, the correct answer is D.

Correct Answer: Paris

Additional Information

• A, B, C, E: These options are incorrect because the passage does not identify London, Venice, Berlin, or Rome as the flagship

destination for the Bellovita train.

• The passage focuses on the revival of a legacy brand that originally connected Europe's cultural capitals, but specifically names Paris as the target for the new venture.

Q33. Answer: (e) Lack of strategic investments

The correct answer is Option 5.

Key Points

• The question asks to identify which factor was not cited as a challenge faced by Bellovita (the resurrected brand).

• Option 1 (Low occupancy rates): The passage explicitly states, "Early operational years proved challenging; the brand struggled with low occupancy rates..."

• Option 2 (High maintenance overheads): The passage mentions the brand struggled with "...high maintenance overheads, leaving industry analysts sceptical..."

• Option 3 (Financial mismanagement): The passage mentions this as the reason the original legendary line went defunct ("...defunct due to financial mismanagement..."), but it is also implied as a hurdle for the legacy brand before the Bellovita acquisition.

• Option 4 (Border closures and lockdowns): The passage states that during the pandemic, "Border closures and lockdowns brought international tourism to an unprecedented standstill, putting immense financial strain..."

• Option 5 (Lack of strategic investments): This is not cited as a challenge. In fact, the passage mentions that "strategic investments began stabilising the business" before the pandemic hit, and later "fresh capital investments allowed Bellovita to modernise."

Therefore, the correct answer is E.

Correct Option: "Lack of strategic investments"

Additional Information

• The passage highlights that Bellovita actually benefited from strategic and fresh capital investments at critical points in its timeline to stabilize and modernize.

• The challenges listed in the text were primarily operational (occupancy/overheads), external (pandemic/lockdowns), or historical (the mismanagement of the predecessor line).

Q34. Answer: (b) Only B

The correct answer is 'Option 2'.

Key Points

• A) The travel market favours quick itineraries and fast-paced experiences.

• This cannot be inferred from the passage. Though high-speed aviation and modern transit systems dominated global travel, the rise of "slow travel" in experiential tourism indicates a shift away from fast-paced experiences.

• B) Experiential tourism has gained popularity as travellers prefer "slow travel."

• This can be inferred from the passage. The passage mentions that after the pandemic, experiential tourism surged as travelers preferred "slow travel."

• C) The pandemic had a generally positive financial impact on the hospitality sector.

• This cannot be inferred from the passage. The passage explicitly states that the global pandemic delivered a catastrophic blow and put immense financial strain on the hospitality sector.

• D) Government bailouts were readily available for private niche ventures like Bellovita.

• This cannot be inferred from the passage. The passage states that mainstream airlines and domestic railways sought government support, but private niche ventures like Bellovita faced existential collapse.

• E) Luxury rail travel has always been highly profitable throughout history.

• This cannot be inferred from the passage. The passage indicates that luxury rail travel had its golden age but also faced periods of financial mismanagement, dwindling passenger counts, and challenges.

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 only B can be inferred from the passage.

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

YourMockTest.com – Free Study Material

Q35. Answer: (b) Bailouts

The solution is in Hindi. Read it online.

Q36. Answer: (b) Only B

The correct answer is Option B.

Key Points

• Statement A: Bellovita's early operational years were financially prosperous and stable.

• This statement is incorrect. The passage explicitly states that "Early operational years proved challenging; the brand struggled with low occupancy rates and high maintenance overheads."

• Statement B: Nostalgic travel emerged as a significant trend post-pandemic.

• This statement is correct. The passage mentions that "post-pandemic travel trends witnessed a dramatic shift" where "experiential tourism surged" and travellers favoured "slow travel," which allowed the nostalgic Bellovita brand to modernise and capture a booming market.

• Statement C: High-speed aviation contributed to the resurgence of sleeper train travel.

• This statement is incorrect. According to the passage, high-speed aviation "dominated global travel" and caused the "golden age of sleeper trains" to "gradually fade." It was a cause of decline, not resurgence.

Therefore, the correct answer is: Only B.

Q37. Answer: (b) Only B

The correct answer is Option 2.

Key Points

• Statement A: Financial mismanagement caused the original rail service to become defunct.

• This statement is correct. The passage explicitly states that the legendary line went "completely defunct due to financial mismanagement and dwindling passenger counts."

• Statement B: Bellovita's operator faced low maintenance overheads in its early years.

• This statement is incorrect. The passage states that during early operational years, the brand "struggled with low occupancy rates and high maintenance overheads."

• Statement C: Bellovita's infrastructure was modernised yet retained its 19th-century charm.

• This statement is correct. The passage mentions that fresh capital allowed the brand to "modernise its infrastructure while preserving its 19th-century charm."

• Hence, Statement B is the only incorrect statement based on the text.

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

Q38. Answer: (b) Final

The solution is in Hindi. Read it online.

Q39. Answer: (c) Ready

The solution is in Hindi. Read it online.

Q40. Answer: (e) Perish

The solution is in Hindi. Read it online.

Q41. Answer: (c) 570

Common Solution:

Shop 'A',

Total number of laptops sold = 450 × 3 = 1350

Sum of the number of HP and Dell laptops sold = 1350 − 390 = 960

Number of HP laptops sold = (7/12) × 960 = 560

Number of Dell laptops sold = (5/12) × 960 = 400

Similarly,

Shop	Number of HP laptops sold	Number of Dell laptops sold	Number of Lenovo laptops sold
A	560	400	390
B	500	400	480
C	600	720	600

D	480	600	540

Calculation:

Required average = (390 + 720 + 600) ÷ 3 = 1510 ÷ 3 = 570

Q42. Answer: (b) 7.14%

Common Solution:

Shop 'A',

Total number of laptops sold = 450 × 3 = 1350

Sum of the number of HP and Dell laptops sold = 1350 − 390 = 960

Number of HP laptops sold = (7/12) × 960 = 560

Number of Dell laptops sold = (5/12) × 960 = 400

Similarly,

Shop	Number of HP laptops sold	Number of Dell laptops sold	Number of Lenovo laptops sold
A	560	400	390
B	500	400	480
C	600	720	600
D	480	600	540

Calculation:

Required percent = (600 – 560)/560 x 100 = 7.14%

Q43. Answer: (b) 432

Common Solution:

Shop 'A',

Total number of laptops sold = 450 × 3 = 1350

Sum of the number of HP and Dell laptops sold = 1350 − 390 = 960

Number of HP laptops sold = (7/12) × 960 = 560

Number of Dell laptops sold = (5/12) × 960 = 400

Similarly,

Shop	Number of HP laptops sold	Number of Dell laptops sold	Number of Lenovo laptops sold
A	560	400	390
B	500	400	480
C	600	720	600
D	480	600	540

Calculation:

Number of Dell laptops sold by shop E = (120/100) x 400 = 480

Number of HP laptops sold by shop E = (80/100) x 480 = 384

Required average = (480 + 384) ÷ 2 = 432

Q44. Answer: (c) 29:33

Common Solution:

Shop 'A',

Total number of laptops sold = 450 × 3 = 1350

Sum of the number of HP and Dell laptops sold = 1350 − 390 = 960

Number of HP laptops sold = (7/12) × 960 = 560

Number of Dell laptops sold = (5/12) × 960 = 400

Similarly,

YourMockTest.com — Free Study Material

Shop	Number of HP laptops sold	Number of Dell laptops sold	Number of Lenovo laptops sold
A	560	400	390
B	500	400	480
C	600	720	600
D	480	600	540

Calculation:

Required ratio = (560 + 600): (720 + 600) = 1160:1320 = 29:33

Q45. Answer: (c) 1620

Common Solution:

Shop 'A',

Total number of laptops sold = 450 × 3 = 1350

Sum of the number of HP and Dell laptops sold = 1350 − 390 = 960

Number of HP laptops sold = (7/12) × 960 = 560

Number of Dell laptops sold = (5/12) × 960 = 400

Similarly,

Shop	Number of HP laptops sold	Number of Dell laptops sold	Number of Lenovo laptops sold
A	560	400	390
B	500	400	480
C	600	720	600
D	480	600	540

Calculation:

Number of Dell laptops sold by shop X = 400 x (100/80) = 500

Number of HP laptops sold by shop X = 560 x (100) /50) = 1120

Required total number of Dell and HP laptops in shop X = 500 + 1120 = 1620

Q46. Answer: (b) 60%

Selling Price per kg rice = Rs. 240

Cost Price per kg rice = Rs. 8(X + 5)

ATQ,

240 = 1.2 × 8(X + 5)

Or, 240 = 9.6(X + 5)

To avoid decimal calculation, multiply both sides by 5:

1200 = 48(X + 5)

Or, 1200 = 48X + 240

Or, 48X = 960

So, X = 20

Cost Price per kg rice = 8(20 + 5) = 200

New Selling Price per kg rice = 4 × 20 = 80

Loss percentage = (200 - 80) / 200 × 100 = 60%

Q47. Answer: (c) 50%

Let total population = 100m

Number of Males = 50m

Number of Females = 50m

Total newspaper readers = 65% of 100m = 65m

Male readers = 80% of 50m = 40m

YourMockTest.com — Free Study Material

Female readers = 65m − 40m = 25m
Female non-readers = 50m − 25m = 25m
Percentage of females not reading newspapers = (25m/50m) x 100 = 50%

Q48. Answer: (a) 2376 cm²

Semicircle circumference = πr + 2r
Or, r(π + 2) = 6X
Or, r(22/7 + 2) = 6X
Or, r X (36/7) = 6X
So, r = 7X/6
Now,
(1/2) πr² = 1232
Or, (1/2) x (22/7) x (7X/6)² = 1232
So, X = 24
Radius of circle = (7 x 24)/6 = 28 cm
Radius of cylinder = (28/2) = 14 cm
Height = 9 x (24/8) = 27 cm
Curved surface area = 2 x (22/7) x 14 x 27 = 2376 cm²

Q49. Answer: (c) 160 km/hr

Let initial speed of 'P' and 'Q' be 5x km/h and 4x km/h respectively
Time taken to travel by 'Q' = 5 hr
Time taken to travel by 'P' = 6 hr
Distance travelled by 'P' = 5x × 6 = 30x
Distance travelled by 'Q' (hourly) = 4x + (4x − 20) + (4x − 40) + (4x − 60) + (4x − 80)
= 20x − 200
ATQ,
30x + 20x − 200 = 1800
Or, 50x = 2000
So, x = 40
Speed of 'Q' = 4 × 40 = 160 km/h

Q50. Answer: (b) 04:40 PM

LCM of 6, 9, 18 = 18 units
Let the total tank capacity be 18 units (LCM of 6, 9, 18)
A's 1 hour work = (18/6) = 3 units
B's 1 hour work = (18/9) = 2 units
C's 1 hour work = (18/18) = 1 unit
From 1 PM to 2 PM (A only) :
Work = 3 units
Remaining = 18 − 3 = 15 units
From 2 PM to 3 PM (A + B) :
Work = 3 + 2 = 5 units
Remaining = 15 − 5 = 10 units
From 3 PM onwards (A + B + C) :
Work per hour = 3 + 2 + 1 = 6 units
Time to finish = 10/6 hours
10/6 hours = 1 hour 40 minutes
Final Time = 3:00 PM + 1 hour 40 minutes = 4:40 PM

Q51. Answer: (c) 3300 m

Common Solution:
Factory 'W',

YourMockTest.com — Free Study Material

Total quantity of fabric manufactured = 4500 m
Quantity of Silk fabric manufactured = (8/15) × 4500 = 2400 m
Quantity of Cotton fabric manufactured = (7/15) × 4500 = 2100 m
Factory 'X',
Total quantity of fabric manufactured = 2100 m
Quantity of Silk fabric manufactured = (3/7) × 2100 = 900 m
Quantity of Cotton fabric manufactured = (4/7) × 2100 = 1200 m
Similarly,

Factory	Quantity of Silk fabric manufactured (in meters)	Quantity of Cotton fabric manufactured (in meters)	Total quantity of fabric manufactured (in meters)
V	1000	1400	2400
W	2400	2100	4500
X	900	1200	2100
Y	800	2800	3600
Z	2200	2600	4800

Calculations:
Required sum = 2400 + 900 = 3300 m

Q52. Answer: (b) 200 m

Common Solution:
Factory 'W',
Total quantity of fabric manufactured = 4500 m
Quantity of Silk fabric manufactured = (8/15) × 4500 = 2400 m
Quantity of Cotton fabric manufactured = (7/15) × 4500 = 2100 m
Factory 'X',
Total quantity of fabric manufactured = 2100 m
Quantity of Silk fabric manufactured = (3/7) × 2100 = 900 m
Quantity of Cotton fabric manufactured = (4/7) × 2100 = 1200 m
Similarly,

Factory	Quantity of Silk fabric manufactured (in meters)	Quantity of Cotton fabric manufactured (in meters)	Total quantity of fabric manufactured (in meters)
V	1000	1400	2400
W	2400	2100	4500
X	900	1200	2100
Y	800	2800	3600
Z	2200	2600	4800

Calculations:
Required difference = 2800 – 2600 = 200 m

Q53. Answer: (b) 2260 m

Common Solution:
Factory 'W',
Total quantity of fabric manufactured = 4500 m
Quantity of Silk fabric manufactured = (8/15) × 4500 = 2400 m
Quantity of Cotton fabric manufactured = (7/15) × 4500 = 2100 m
Factory 'X',
Total quantity of fabric manufactured = 2100 m
Quantity of Silk fabric manufactured = (3/7) × 2100 = 900 m

YourMockTest.com — Free Study Material

Quantity of Cotton fabric manufactured = (4/7) × 2100 = 1200 m

Similarly,

Factory	Quantity of Silk fabric manufactured (in meters)	Quantity of Cotton fabric manufactured (in meters)	Total quantity of fabric manufactured (in meters)
V	1000	1400	2400
W	2400	2100	4500
X	900	1200	2100
Y	800	2800	3600
Z	2200	2600	4800

Calculations:

Factory 'V',

New quantity of silk fabric manufactured = (120/100) x 1000 = 1200 m

New quantity of cotton fabric manufactured = (80/100) x 1400 = 1120 m

Required total quantity = 1200 + 1120 = 2320 m

Q54. Answer: (c) 1700 m

Common Solution:

Factory 'W',

Total quantity of fabric manufactured = 4500 m

Quantity of Silk fabric manufactured = (8/15) × 4500 = 2400 m

Quantity of Cotton fabric manufactured = (7/15) × 4500 = 2100 m

Factory 'X',

Total quantity of fabric manufactured = 2100 m

Quantity of Silk fabric manufactured = (3/7) × 2100 = 900 m

Quantity of Cotton fabric manufactured = (4/7) × 2100 = 1200 m

Similarly,

Factory	Quantity of Silk fabric manufactured (in meters)	Quantity of Cotton fabric manufactured (in meters)	Total quantity of fabric manufactured (in meters)
V	1000	1400	2400
W	2400	2100	4500
X	900	1200	2100
Y	800	2800	3600
Z	2200	2600	4800

Calculations:

Required average = (800 + 2600)/2 = 3400/2 = 1700 m

Q55. Answer: (c) 104.76%

Common Solution:

Factory 'W',

Total quantity of fabric manufactured = 4500 m

Quantity of Silk fabric manufactured = (8/15) × 4500 = 2400 m

Quantity of Cotton fabric manufactured = (7/15) × 4500 = 2100 m

Factory 'X',

Total quantity of fabric manufactured = 2100 m

Quantity of Silk fabric manufactured = (3/7) × 2100 = 900 m

Quantity of Cotton fabric manufactured = (4/7) × 2100 = 1200 m

Similarly,

YourMockTest.com — Free Study Material

Factory	Quantity of Silk fabric manufactured (in meters)	Quantity of Cotton fabric manufactured (in meters)	Total quantity of fabric manufactured (in meters)
V	1000	1400	2400
W	2400	2100	4500
X	900	1200	2100
Y	800	2800	3600
Z	2200	2600	4800

Calculations:

Required percentage = (2200/2100) x 100 = 104.76%

Q56. Answer: (b) Rs. 14850

ATQ,

$11236 = 10000(1 + R/100)^2$

Or, $(1 + R/100)^2 = 11236/10000$

Or, $(1 + R/100)^2 = 1.1236$

Or, $1 + (R/100) = 1.06$

So, R = 6

Now,

P = 15000

R = (6 + 3)% = 9%

T = (6 + 5) = 11 years

SI = (15000 × 9 × 11)/100 = Rs. 14850

Q57. Answer: (c) 11 gm

Total initial weight White balls = 7 × 9 = 63

Total initial weight Red balls = 13 × 28 = 364

Total initial weight Total balls = 427

Removed white balls = X and Y

Remaining white weight = 63 - X - Y

Remaining white count = 5

Added red balls = 3

Average weight of added red balls = (Y - 2)

Added red weight = 3(Y - 2) = 3Y - 6

Final total weight = (63 - X - Y) + (364 + 3Y - 6) = 421 - X + 2Y

Final number of balls = 5 + 13 + 3 = 21

Final average = 20

Total final weight = 21 × 20 = 420

ATQ,

421 - X + 2Y = 420

Or, −X + 2Y = -1

Or, X = 2Y + 1

Condition:

Y is prime, 20 > X > Y

Case (I): Y = 3

X = 2(3) + 1 = 7

X = 7 (prime)

Not valid

Case (II): Y = 5

X = 2(5) + 1 = 11

X = 11 (prime)

YourMockTest.com — Free Study Material

Not valid
Case (III): Y = 7
X = 2(7) + 1 = 15
20 > 15 > 7
Valid
Average weight of removed white balls = (X + Y) ÷ 2
= (15 + 7) ÷ 2 = 22 ÷ 2 = 11 gm

Q58. Answer: (b) 372

Common Solutions:
Let the total number of students who participate in drama from class VIII and class X be 5x and 6x respectively.
The total number of students who participate in dancing from class VIII = 5x - 50
The total number of students who participate in singing from class VIII = 5x - 75
ATQ,
(5x - 50) + (5x - 75) + 5x = 865
Or, 15x - 125 = 865
Or, 15x = 990
So, x = 66
The total number of students who participate in drama from class VIII = 5 × 66 = 330
The total number of students who participate in dancing from class VIII = 330 - 50 = 280
The total number of students who participate in singing from class VIII = 330 - 75 = 255
The total number of students who participate in drama from class X = 6 × 66 = 396
The total number of students who participate in drama from class IX = 1086 - (330 + 396) = 360
The total number of students who participate in dancing from class X = (7/6) × 360 = 420
The total number of students who participate in singing from class X = 125% of 280 = 350
The total number of students who participate in dancing and singing together from class IX = 360 × 2 = 720
The total number of students who participate in dancing from class IX = (100/120) × 528 = 440
The total number of students who participate in singing from class IX = 528 - 440 = 352

Class	Number of students who participate in Dancing	Number of students who participate in Singing	Number of students who participate in Drama
VIII	200	180	240
IX	400	320	300
X	350	250	360

Calculation:
Required average = (280 + 440 + 396) ÷ 3
= 1116 ÷ 3 = 372

Q59. Answer: (c) 13.14%

Common Solutions:
Let the total number of students who participate in drama from class VIII and class X be 5x and 6x respectively.
The total number of students who participate in dancing from class VIII = 5x - 50
The total number of students who participate in singing from class VIII = 5x - 75
ATQ,
(5x - 50) + (5x - 75) + 5x = 865
Or, 15x - 125 = 865
Or, 15x = 990
So, x = 66
The total number of students who participate in drama from class VIII = 5 × 66 = 330
The total number of students who participate in dancing from class VIII = 330 - 50 = 280
The total number of students who participate in singing from class VIII = 330 - 75 = 255
The total number of students who participate in drama from class X = 6 × 66 = 396

YourMockTest.com — Free Study Material

The total number of students who participate in drama from class IX = 1086 - (330 + 396) = 360
The total number of students who participate in dancing from class X = (7/6) × 360 = 420
The total number of students who participate in singing from class X = 125% of 280 = 350
The total number of students who participate in dancing and singing together from class IX = 360 × 2 = 720
The total number of students who participate in dancing from class IX = (100/120) × 528 = 440
The total number of students who participate in singing from class IX = 528 - 440 = 352

Class	Number of students who participate in Dancing	Number of students who participate in Singing	Number of students who participate in Drama
VIII	200	180	240
IX	400	320	300
X	350	250	360

Calculation:
Required percentage = (396 – 350)/350 x 100 = 13.14%

Q60. Answer: (c) 1152

Common Solutions:
Let the total number of students who participate in drama from class VIII and class X be 5x and 6x respectively.
The total number of students who participate in dancing from class VIII = 5x - 50
The total number of students who participate in singing from class VIII = 5x - 75
ATQ,
(5x - 50) + (5x - 75) + 5x = 865
Or, 15x - 125 = 865
Or, 15x = 990
So, x = 66
The total number of students who participate in drama from class VIII = 5 × 66 = 330
The total number of students who participate in dancing from class VIII = 330 - 50 = 280
The total number of students who participate in singing from class VIII = 330 - 75 = 255
The total number of students who participate in drama from class X = 6 × 66 = 396
The total number of students who participate in drama from class IX = 1086 - (330 + 396) = 360
The total number of students who participate in dancing from class X = (7/6) × 360 = 420
The total number of students who participate in singing from class X = 125% of 280 = 350
The total number of students who participate in dancing and singing together from class IX = 360 × 2 = 720
The total number of students who participate in dancing from class IX = (100/120) × 528 = 440
The total number of students who participate in singing from class IX = 528 - 440 = 352

Class	Number of students who participate in Dancing	Number of students who participate in Singing	Number of students who participate in Drama
VIII	200	180	240
IX	400	320	300
X	350	250	360

Calculation:
Required total number of students who participated in dancing, drama, and singing together from class IX = 440 + 352 + 360 = 1152

Q61. Answer: (c) 187

Common Solutions:
Let the total number of students who participate in drama from class VIII and class X be 5x and 6x respectively.
The total number of students who participate in dancing from class VIII = 5x - 50
The total number of students who participate in singing from class VIII = 5x - 75
ATQ,
(5x - 50) + (5x - 75) + 5x = 865

Or, 15x - 125 = 865
Or, 15x = 990
So, x = 66
The total number of students who participate in drama from class VIII = 5 × 66 = 330
The total number of students who participate in dancing from class VIII = 330 - 50 = 280
The total number of students who participate in singing from class VIII = 330 - 75 = 255
The total number of students who participate in drama from class X = 6 × 66 = 396
The total number of students who participate in drama from class IX = 1086 - (330 + 396) = 360
The total number of students who participate in dancing from class X = (7/6) × 360 = 420
The total number of students who participate in singing from class X = 125% of 280 = 350
The total number of students who participate in dancing and singing together from class IX = 360 × 2 = 720
The total number of students who participate in dancing from class IX = (100/120) × 528 = 440
The total number of students who participate in singing from class IX = 528 - 440 = 352

Class	Number of students who participate in Dancing	Number of students who participate in Singing	Number of students who participate in Drama
VIII	200	180	240
IX	400	320	300
X	350	250	360

Calculation:
The total number of students who participate in singing from classes VIII and IX together
= 255 + 352 = 607
The total number of students who participate in dancing from class X = 420
Required difference = 607 – 420 = 187

Q62. Answer: (c) 70:71

Common Solutions:
Let the total number of students who participate in drama from class VIII and class X be 5x and 6x respectively.
The total number of students who participate in dancing from class VIII = 5x - 50
The total number of students who participate in singing from class VIII = 5x - 75
ATQ,
(5x - 50) + (5x - 75) + 5x = 865
Or, 15x - 125 = 865
Or, 15x = 990
So, x = 66
The total number of students who participate in drama from class VIII = 5 × 66 = 330
The total number of students who participate in dancing from class VIII = 330 - 50 = 280
The total number of students who participate in singing from class VIII = 330 - 75 = 255
The total number of students who participate in drama from class X = 6 × 66 = 396
The total number of students who participate in drama from class IX = 1086 - (330 + 396) = 360
The total number of students who participate in dancing from class X = (7/6) × 360 = 420
The total number of students who participate in singing from class X = 125% of 280 = 350
The total number of students who participate in dancing and singing together from class IX = 360 × 2 = 720
The total number of students who participate in dancing from class IX = (100/120) × 528 = 440
The total number of students who participate in singing from class IX = 528 - 440 = 352

Class	Number of students who participate in Dancing	Number of students who participate in Singing	Number of students who participate in Drama
VIII	200	180	240
IX	400	320	300
X	350	250	360

YourMockTest.com – Free Study Material

Calculation:

The total number of students who participate in dancing from classes VIII and X together

= 280 + 420 = 700

The total number of students who participate in singing from class X and drama from class IX together = 350 + 360 = 710

Required ratio = 700: 710 = 70:71

Q63. Answer: (c) Rs. 54,000

Profit share of 'A', 'B' and 'C' = (60000 × 12) : (100000 × 12) : (80000 × 6)

= 6 :10 :4

C's share = (4/20) × 270000 = Rs. 54000

Q64. Answer: (b) 320 L

Let the initial quantity of Milk and Water be '5x' and '3x' respectively,

Quantity of Milk removed = 32 X (5/8) = 20 Liters

Quantity of Water removed = 32 X (3/8) = 12 Liters

Remaining quantity of milk = (5x - 20) Liters

Remaining quantity of water = (3x - 12) Liters

After adding 12 Liters of water,

Remaining quantity of water = (3x - 12 + 12) = 3x Liters

ATQ,

(5x – 20)/3x = 3/2

Or, 2(5x – 20) = 9x

Or, 10x – 40 = 9x

Or, x = 40

Initial mixture = 8 x 40 = 320 L

Q65. Answer: (a) Rs. 9975

Let number of Rs. 5 coins be 'm'

So, the number of Rs. 2 coins = m + 250

Number of Rs. 0.5 coins = 11m

ATQ,

m + (m + 250) + 11m = 2200

Or, 13m + 250 = 2200

Or, 13m = 1950

So, m = 150

Number of Rs. 5 coins = 150

Number of Rs. 2 coins = 400

Number of Rs. 0.5 coins = 1650

Share of 'R' = 150 × 5 + 400 × 2 + 1650 × 0.5 = 750 + 800 + 825 = 2375

Share of 'P' = (6/5) × 2375 = 2850

Here, (a + 1)/a = 6/5

Or, 5a + 5 = 6a

So, a = 5

Share of 'Q' = (2a/a) × R's share = 2 × 2375 = 4750

ATQ,

Total amount (X) = P's share + Q's share + R's share = 2850 + 4750 + 2375 = 9975

Q66. Answer: (a) x < y

Given:

I. $x^2 + 36x + 324 = 0$

II. $y^2 – 4y – 221 = 0$

Calculation:

I. $x^2 + 36x + 324 = 0$

=> x^2+ 18x + 18x + 324 = 0

=> x(x + 18) + 18(x + 18)= 0

=> (x + 18)(x + 18) = 0

=> x = (-18), (-18)

II. $y^2 – 4y – 221 = 0$

=> y^2– 17y + 13y – 221 = 0

=> y(y – 17) + 13(y – 17) =0

=> (y – 17)(y + 13) = 0

=> y = 17, (-13)

Value of ‘x’	Relation	Value of ‘y’
-18	<	17
-18	<	-13

When we compared the values of ‘x’ and ‘y’ in the table above, we found that there is only ONE relation between X and Y i.e. <. So, a relation between x and y is “x < y”.

Therefore After comparison, all the values of x and y the relation is "x < y".

Q67. Answer: (a) x > y

Given:

I. $x^2 – 24x + 143 = 0$

II. $6y^2 – 25y + 26 = 0$

Calculation:

From I,

$x^2 – 24x + 143 = 0$

=> $x^2 – 13x - 11x + 143 = 0$

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

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

Taking,

=> (x - 13) = 0 or (x - 11) = 0

=> x = 13 or 11

From II,

$6y^2 – 25y + 26 = 0$

=> $6y^2 – 13y - 12y + 26 = 0$

=> y(6y - 13) - 2(6y - 13) = 0

=> (6y - 13)(y - 2) = 0

Taking,

=> (y - 2) = 0 or (6y - 13) = 0

=> y = 2 or (13/6)

Comparison between x and y (via Tabulation):

Value of x	Value of y	Relation
13	2	x > y
13	13/6	x > y
11	2	x > y
11	13/6	x > y

Therefore x > y.

Q68. Answer: (a) x < y

Given:

I. x2 + 11x + 18 = 0

II. y2 + 2y + 1 = 0

Calculation:

I. x2 + 11x + 18 = 0

=> x²+ 9x + 2x + 18 = 0

=> x(x + 9) + 2(x + 9)= 0

=> (x + 9)(x + 2) = 0

=> x = (-9), (-2)

II. y2 + 2y + 1 = 0

=> y²+ y + y + 1 = 0

=> y(y + 1) + 1(y + 1) =0

=> (y + 1)(y + 1) = 0

=> y = (-1), (-1)

Comparison between x and y (via Tabulation):

Value of 'x'	Relation	Value of 'y'
-9	<	-1
-2	<	-1

When we compared the values of 'x' and 'y' in the table above, we found that there is only ONE relation between X and Y i.e. <. So, a relation between x and y is "x < y".

Therefore After comparison, all the values of x and y the relation is "x < y".

Q69. Answer: (c) 68

Solution:

10 years ago, let the age of mother = 5x years, age of daughter = 2x years

Present Age of mother = 5x + 10

Present Age of daughter = 2x + 10

8 years hence, mother age = 5x + 18 years

Daughter age = 2x + 18 years

(5x+18)/ (2x+18) = 7:4

x = 9

Present age of mother = (5 × 9 + 10) = 45 = 55

Present age of daughter = (2 × 9 + 10) = 28

Present age of father = (55 + 5) = 60

Therefore the age of father and daughter 10 years ago = (60 + 28 - 20) = 68

Q70. Answer: (b) 1.5 kmph

Solution:

Upstream speed of the boat = 3x

Downstream speed of the boat = 4x

Difference between time taken by the boat to cover 36 km in upstream and downstream = 1

36/3x - 36/4x = 1

12/x - 9/x = 1

12 - 9 = x

x = 3

Speed of stream = (Downstream speed - Upstream Speed)/2

= (12 - 9)/2

= 1.5 km/hr

Hence, option(2) is correct.

Q71. Answer: (e) Both 2 and 4

Given: Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year).

1. Three persons were born between Y and X, who was born in a month having least number of days.

2. W was born just before Y.

YourMockTest.com — Free Study Material

There are 2 cases i.e., Case 1 and Case 2.

Month (Days)	Date	Persons (Case 1)	Persons (Case 2)
January (31)	9		
January (31)	26		
February (28)	9	X	
February (28)	26		X
March (31)	9		
March (31)	26	W	
April (30)	9	Y	W
April (30)	26		Y
May (31)	9		
May (31)	26		

3. Four Persons were born between W and V.

4. S is just younger than V and was born on the month having even number of days.

Case 1 gets eliminated because S was born on the month having even number of days and the number of days in January is 31.

Month (Days)	Date	Persons (Case 2)
January (31)	9	
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	
March (31)	26	
April (30)	9	W
April (30)	26	Y
May (31)	9	
May (31)	26	

5. Number of persons were born between Z and S is same as the number of persons were born between Z and R.

6. More than three persons were born between X and T.

7. Q was born before U.

Month (Days)	Date	Persons (Case 2)
January (31)	9	Q
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	U
March (31)	26	Z
April (30)	9	W
April (30)	26	Y
May (31)	9	R
May (31)	26	T

YourMockTest.com — Free Study Material

Y and T were born in April.

Hence, the correct answer is ‘Both D and B’.

Q72. Answer: (d) Both I and III

Given: Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year).

1. Three persons were born between Y and X, who was born in a month having least number of days.

2. W was born just before Y.

There are 2 cases i.e., Case 1 and Case 2.

Month (Days)	Date	Persons (Case 1)	Persons (Case 2)
January (31)	9		
January (31)	26		
February (28)	9	X	
February (28)	26		X
March (31)	9		
March (31)	26	W	
April (30)	9	Y	W
April (30)	26		Y
May (31)	9		
May (31)	26		

3. Four Persons were born between W and V.

4. S is just younger than V and was born on the month having even number of days.

Case 1 gets eliminated because S was born on the month having even number of days and the number of days in January is 31.

Month (Days)	Date	Persons (Case 2)
January (31)	9	
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	
March (31)	26	
April (30)	9	W
April (30)	26	Y
May (31)	9	
May (31)	26	

5. Number of persons were born between Z and S is same as the number of persons were born between Z and R.

6. More than three persons were born between X and T.

7. Q was born before U.

Month (Days)	Date	Persons (Case 2)
January (31)	9	Q
January (31)	26	V
February (28)	9	S
February (28)	26	X

YourMockTest.com — Free Study Material

March (31)	9	U
March (31)	26	Z
April (30)	9	W
April (30)	26	Y
May (31)	9	R
May (31)	26	T

I. W was born on 9th April (True)

II. V was born on 26th February (False)

III. T was born after W (True)

Hence, the correct answer is 'Both I and III'.

Q73. Answer: (b) Three

Given: Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year).

1. Three persons were born between Y and X, who was born in a month having least number of days.

2. W was born just before Y.

There are 2 cases i.e., Case 1 and Case 2.

Month (Days)	Date	Persons (Case 1)	Persons (Case 2)
January (31)	9		
January (31)	26		
February (28)	9	X	
February (28)	26		X
March (31)	9		
March (31)	26	W	
April (30)	9	Y	W
April (30)	26		Y
May (31)	9		
May (31)	26		

3. Four Persons were born between W and V.

4. S is just younger than V and was born on the month having even number of days.

Case 1 gets eliminated because S was born on the month having even number of days and the number of days in January is 31.

Month (Days)	Date	Persons (Case 2)
January (31)	9	
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	
March (31)	26	
April (30)	9	W
April (30)	26	Y
May (31)	9	
May (31)	26	

YourMockTest.com — Free Study Material

5. Number of persons were born between Z and S is same as the number of persons were born between Z and R.

6. More than three persons were born between X and T.

7. Q was born before U.

Month (Days)	Date	Persons (Case 2)
January (31)	9	Q
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	U
March (31)	26	Z
April (30)	9	W
April (30)	26	Y
May (31)	9	R
May (31)	26	T

Three persons were born between Q and R on same date of Q.

Hence, the correct answer is 'Three'.

Q74. Answer: (a) 26th May

Given: Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year).

1. Three persons were born between Y and X, who was born in a month having least number of days.

2. W was born just before Y.

There are 2 cases i.e., Case 1 and Case 2.

Month (Days)	Date	Persons (Case 1)	Persons (Case 2)
January (31)	9		
January (31)	26		
February (28)	9	X	
February (28)	26		X
March (31)	9		
March (31)	26	W	
April (30)	9	Y	W
April (30)	26		Y
May (31)	9		
May (31)	26		

3. Four Persons were born between W and V.

4. S is just younger than V and was born on the month having even number of days.

Case 1 gets eliminated because S was born on the month having even number of days and the number of days in January is 31.

Month (Days)	Date	Persons (Case 2)
January (31)	9	
January (31)	26	V
February (28)	9	S
February (28)	26	X

YourMockTest.com — Free Study Material

March (31)	9	
March (31)	26	
April (30)	9	W
April (30)	26	Y
May (31)	9	
May (31)	26	

5. Number of persons were born between Z and S is same as the number of persons were born between Z and R.
6. More than three persons were born between X and T.
7. Q was born before U.

Month (Days)	Date	Persons (Case 2)
January (31)	9	Q
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	U
March (31)	26	Z
April (30)	9	W
April (30)	26	Y
May (31)	9	R
May (31)	26	T

T was born on 26th May.

Hence, the correct answer is ‘26th May’.

Q75. Answer: (b) One less

Given: Ten persons Q, R, S, T, U, V, W, X, Y, and Z were born on two different dates i.e. 9th and 26th of five months Viz. January, February, March, April, and May of the same year (not leap year).

1. Three persons were born between Y and X, who was born in a month having least number of days.
2. W was born just before Y.

There are 2 cases i.e., Case 1 and Case 2.

Month (Days)	Date	Persons (Case 1)	Persons (Case 2)
January (31)	9		
January (31)	26		
February (28)	9	X	
February (28)	26		X
March (31)	9		
March (31)	26	W	
April (30)	9	Y	W
April (30)	26		Y
May (31)	9		
May (31)	26		

3. Four Persons were born between W and V.
4. S is just younger than V and was born on the month having even number of days.

YourMockTest.com — Free Study Material

Case 1 gets eliminated because S was born on the month having even number of days and the number of days in January is 31.

Month (Days)	Date	Persons (Case 2)
January (31)	9	
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	
March (31)	26	
April (30)	9	W
April (30)	26	Y
May (31)	9	
May (31)	26	

5. Number of persons were born between Z and S is same as the number of persons were born between Z and R.
6. More than three persons were born between X and T.
7. Q was born before U.

Month (Days)	Date	Persons (Case 2)
January (31)	9	Q
January (31)	26	V
February (28)	9	S
February (28)	26	X
March (31)	9	U
March (31)	26	Z
April (30)	9	W
April (30)	26	Y
May (31)	9	R
May (31)	26	T

The number of persons were between Q and X is one less than the number of persons were between Z and T.

Hence, the correct answer is ‘One less’.

Q76. Answer: (b) The one who sits second to the right of G

Given: Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

1. C sits fourth to the right of the one who faces R.
2. Only two persons sit between R and V.
3. The person who sits immediate right of V faces the one who sits second to the right of H.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

4. Only four person sit between W and U, who sit to the left of V.
5. As many persons sit to the right of G as to the left of T.
6. The number of persons sitting between G and C is two less than the number of persons sitting between T and S.

Case 3 gets eliminated because two persons sit to the left of G and no one sit to the right of T.

7. U doesn’t sit adjacent to S.
8. F sits immediate left of D.

YourMockTest.com — Free Study Material

9. Neither B nor F faces W.

Case 2 is eliminate because there is no space left for F and D.

The one who sits second to the right of G faces the one who sits third to the left of S.

Hence, the correct answer is 'The one who sits second to the right of G'.

Q77. Answer: (c) Only I and III

Given: Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

1. C sits fourth to the right of the one who faces R.

2. Only two persons sit between R and V.

3. The person who sits immediate right of V faces the one who sits second to the right of H.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

4. Only four person sit between W and U, who sit to the left of V.

5. As many persons sit to the right of G as to the left of T.

6. The number of persons sitting between G and C is two less than the number of persons sitting between T and S.

Case 3 gets eliminated because two persons sit to the left of G and no one sit to the right of T.

7. U doesn't sit adjacent to S.

8. F sits immediate left of D.

9. Neither B nor F faces W.

Case 2 is eliminate because there is no space left for F and D.

I). B faces S - True

II). No one sits to the right of U - False

III). D sits at one of the extreme ends of the row - True

Hence, the correct answer is 'Only I and III'.

Q78. Answer: (d) U and H

Given: Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

1. C sits fourth to the right of the one who faces R.

2. Only two persons sit between R and V.

3. The person who sits immediate right of V faces the one who sits second to the right of H.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

4. Only four person sit between W and U, who sit to the left of V.

5. As many persons sit to the right of G as to the left of T.

6. The number of persons sitting between G and C is two less than the number of persons sitting between T and S.

Case 3 gets eliminated because two persons sit to the left of G and no one sit to the right of T.

7. U doesn't sit adjacent to S.

8. F sits immediate left of D.

9. Neither B nor F faces W.

Case 2 is eliminate because there is no space left for F and D.

Except U and H, in all other options all are facing each other.

Hence, the correct answer is 'U and H'.

Q79. Answer: (a) The one who sits immediate right of C

Given: Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

1. C sits fourth to the right of the one who faces R.

2. Only two persons sit between R and V.

3. The person who sits immediate right of V faces the one who sits second to the right of H.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

4. Only four person sit between W and U, who sit to the left of V.

5. As many persons sit to the right of G as to the left of T.

6. The number of persons sitting between G and C is two less than the number of persons sitting between T and S.

Case 3 gets eliminated because two persons sit to the left of G and no one sit to the right of T.

7. U doesn't sit adjacent to S.

8. F sits immediate left of D.

9. Neither B nor F faces W.

Case 2 is eliminate because there is no space left for F and D.

The one who sits immediate right of C sits opposite to T.

Hence, the correct answer is 'The one who sits immediate right of C'.

Q80. Answer: (e) Third to the left

Given: Fourteen persons are sitting in two parallel rows containing seven persons each in such a way that there is an equal distance between adjacent persons. In row 1: B, C, D, E, F, G and H are seated and all of them are facing north. In row 2: Q, R, S, T, U, V and W are seated and all of them are facing south. Each person in row 1 faces another person in row 2.

1. C sits fourth to the right of the one who faces R.

2. Only two persons sit between R and V.

3. The person who sits immediate right of V faces the one who sits second to the right of H.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

4. Only four person sit between W and U, who sit to the left of V.

5. As many persons sit to the right of G as to the left of T.

6. The number of persons sitting between G and C is two less than the number of persons sitting between T and S.

Case 3 gets eliminated because two persons sit to the left of G and no one sit to the right of T.

7. U doesn't sit adjacent to S.

8. F sits immediate left of D.

9. Neither B nor F faces W.

Case 2 is eliminate because there is no space left for F and D.

H is third to the left to G.

Hence, the correct answer is 'Third to the left'.

Q81. Answer: (c) 12

Given number: 63854687

Before	**6**	**3**	**8**	**5**	**4**	**6**	**8**	**7**
Addition and subtraction	Even + 1	Prime – 2	Even + 1	Prime – 2	Even + 1	Even + 1	Even + 1	Prime – 2
After	7	1	9	3	5	7	9	5

The 3^(rd) digit from the left end is 9 and the 5^(th) digit from the right end is 3.

So, Sum = 9 + 3 = 12

Hence, 12 is correct.

Q82. Answer: (d) Monday

Given: Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

1. Only one person buys fruit between T and the one who buys Mango.

2. At most two persons buys before T.

3. X buys immediately before T.

4. The one who bought orange, buys it three persons after the one who buys Mango.

There are 2 cases i.e., Case 1, and Case 2.

Days	**Case 1 Person - Fruits**	**Case 2 Person - Fruits**
Monday	X	Mango
Tuesday	T	X

Wednesday		T
Thursday	Mango	Orange
Friday		
Saturday		
Sunday	Orange	

5. U buys kiwi, two persons before W.

6. W doesn't buy orange.

7. Z buys immediately before V. Case 2 is eliminated because after placing U (Kiwi) and W, there are no two consecutive empty days available to place Z immediately before V.

Days	Case 1 Person - Fruits
Monday	X
Tuesday	T
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W
Saturday	Z
Sunday	V - Orange

8. As many persons buys fruit before Grapes as after the one who buys Litchi.

9. X and T doesn't buy Grapes and Pear.

Days	Case 1 Person - Fruits
Monday	X - Banana
Tuesday	T - Litchi
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W - Pear
Saturday	Z - Grapes
Sunday	V - Orange

The person who bought Banana, buys it on Monday.

Hence, the correct answer is 'Monday'

Q83. Answer: (b) Pear

Given: Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

1. Only one person buys fruit between T and the one who buys Mango.

2. At most two persons buys before T.

3. X buys immediately before T.

4. The one who bought orange, buys it three persons after the one who buys Mango.

There are 2 cases i.e., Case 1, and Case 2.

Days	Case 1 Person - Fruits	Case 2 Person - Fruits
Monday	X	Mango
Tuesday	T	X
Wednesday		T

YourMockTest.com — Free Study Material

Thursday	Mango	Orange
Friday		
Saturday		
Sunday	Orange	

5. U buys kiwi, two persons before W.

6. W doesn't buy orange.

7. Z buys immediately before V. Case 2 is eliminated because after placing U (Kiwi) and W, there are no two consecutive empty days available to place Z immediately before V.

Days	Case 1 Person - Fruits
Monday	X
Tuesday	T
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W
Saturday	Z
Sunday	V - Orange

8. As many persons buys fruit before Grapes as after the one who buys Litchi.

9. X and T doesn't buy Grapes and Pear.

Days	Case 1 Person - Fruits
Monday	X - Banana
Tuesday	T - Litchi
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W - Pear
Saturday	Z - Grapes
Sunday	V - Orange

The number of persons buy fruit before Y is same as the number of persons buy fruit between X and the one who bought Pear.

Hence, the correct answer is 'Pear'

Q84. Answer: (d) Y

Given: Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

1. Only one person buys fruit between T and the one who buys Mango.

2. At most two persons buys before T.

3. X buys immediately before T.

4. The one who bought orange, buys it three persons after the one who buys Mango.

There are 2 cases i.e., Case 1, and Case 2.

Days	Case 1 Person - Fruits	Case 2 Person - Fruits
Monday	X	Mango
Tuesday	T	X
Wednesday		T
Thursday	Mango	Orange

YourMockTest.com — Free Study Material

Friday		
Saturday		
Sunday	Orange	

5. U buys kiwi, two persons before W.

6. W doesn't buy orange.

7. Z buys immediately before V. Case 2 is eliminated because after placing U (Kiwi) and W, there are no two consecutive empty days available to place Z immediately before V.

Days	Case 1 Person - Fruits
Monday	X
Tuesday	T
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W
Saturday	Z
Sunday	V - Orange

8. As many persons buys fruit before Grapes as after the one who buys Litchi.

9. X and T doesn't buy Grapes and Pear.

Days	Case 1 Person - Fruits
Monday	X - Banana
Tuesday	T - Litchi
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W - Pear
Saturday	Z - Grapes
Sunday	V - Orange

Y bought Mango.

Hence, the correct answer is 'Y'

Q85. Answer: (a) The one who likes Grapes

Given: Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

1. Only one person buys fruit between T and the one who buys Mango.

2. At most two persons buys before T.

3. X buys immediately before T.

4. The one who bought orange, buys it three persons after the one who buys Mango.

There are 2 cases i.e., Case 1, and Case 2.

Days	Case 1 Person - Fruits	Case 2 Person - Fruits
Monday	X	Mango
Tuesday	T	X
Wednesday		T
Thursday	Mango	Orange
Friday		

YourMockTest.com — Free Study Material

Saturday		
Sunday	Orange	

5. U buys kiwi, two persons before W.

6. W doesn't buy orange.

7. Z buys immediately before V. Case 2 is eliminated because after placing U (Kiwi) and W, there are no two consecutive empty days available to place Z immediately before V.

Days	Case 1 Person - Fruits
Monday	X
Tuesday	T
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W
Saturday	Z
Sunday	V - Orange

8. As many persons buys fruit before Grapes as after the one who buys Litchi.

9. X and T doesn't buy Grapes and Pear.

Days	Case 1 Person - Fruits
Monday	X - Banana
Tuesday	T - Litchi
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W - Pear
Saturday	Z - Grapes
Sunday	V - Orange

The one who likes Grapes buys fruit two days after Y.

Hence, the correct answer is 'The one who likes Grapes'

Q86. Answer: (c) Four

Given: Seven persons – T, U, V, W, X, Y and Z – buy different fruits: Pear, Banana, Orange, Mango, Grapes, Kiwi, and Litchi – but not necessarily in the same order. Each of them buys different fruit one after the other in the same week starting from Monday to Sunday.

1. Only one person buys fruit between T and the one who buys Mango.

2. At most two persons buys before T.

3. X buys immediately before T.

4. The one who bought orange, buys it three persons after the one who buys Mango.

There are 2 cases i.e., Case 1, and Case 2.

Days	Case 1 Person - Fruits	Case 2 Person - Fruits
Monday	X	Mango
Tuesday	T	X
Wednesday		T
Thursday	Mango	Orange
Friday		
Saturday		

YourMockTest.com — Free Study Material

Sunday	Orange	

5. U buys kiwi, two persons before W.

6. W doesn't buy orange.

7. Z buys immediately before V. Case 2 is eliminated because after placing U (Kiwi) and W, there are no two consecutive empty days available to place Z immediately before V.

Days	Case 1 Person - Fruits
Monday	X
Tuesday	T
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W
Saturday	Z
Sunday	V - Orange

8. As many persons buys fruit before Grapes as after the one who buys Litchi.

9. X and T doesn't buy Grapes and Pear.

Days	Case 1 Person - Fruits
Monday	X - Banana
Tuesday	T - Litchi
Wednesday	U - Kiwi
Thursday	Y - Mango
Friday	W - Pear
Saturday	Z - Grapes
Sunday	V - Orange

Four persons buy fruit between V and the one who likes Litchi.

Hence, the correct answer is 'Four'

Q87. Answer: (a) South-East

The least possible diagram based on the given information,

Clearly, point G is to the south-east of point X.

Q88. Answer: (e) 10 km

The least possible diagram based on the given information,

Clearly, the distance between points T and X is 10 km.

Q89. Answer: (c) 5 km East

The least possible diagram based on the given information,

Clearly, point Z is 5 km to the East of point T.

Q90. Answer: (e) X

Given: Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

1. Q works in operations.

2. Z works in the same department as S but doesn't work in marketing.

3. R and X doesn't work in operations and both of them work in different departments.

4. W and R work in the same department but not with S.

There are 3 cases i.e., Case 1, Case 2, and Case 3.

YourMockTest.com — Free Study Material

Departments	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Finance	Z, S, X	X	W, R
Marketing	W, R	W, R	X
Operations	Q	Z, S, Q	Z, S, Q

5. Y and V work in the same department.
6. V doesn't work in marketing.
7. U doesn't work in finance.
8. Z and U work in different departments.
9. W and U work in different departments.
10. Not more than two persons works with U.

Case 2 is eliminated because there is no valid place for U.

Case 1 is eliminated because Y and V must be placed in Operations to avoid exceeding the maximum limit in Finance. This forces U into Marketing, which violates the condition that W and U work in different departments.

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U
Operations	Z, S, Q

11. S and T work in different departments. So, the final arrangement:

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U, T
Operations	Z, S, Q

Both the persons work in the same department. So, C is related to G.

Hence, the correct answer is 'X'.

Q91. Answer: (c) X, U, T

Given: Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

1. Q works in operations.
2. Z works in the same department as S but doesn't work in marketing.
3. R and X doesn't work in operations and both of them work in different departments.
4. W and R work in the same department but not with S.

There are 3 cases i.e., Case 1, Case 2, and Case 3.

Departments	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Finance	Z, S, X	X	W, R
Marketing	W, R	W, R	X
Operations	Q	Z, S, Q	Z, S, Q

5. Y and V work in the same department.
6. V doesn't work in marketing.
7. U doesn't work in finance.
8. Z and U work in different departments.
9. W and U work in different departments.
10. Not more than two persons works with U.

Case 2 is eliminated because there is no valid place for U.

Case 1 is eliminated because Y and V must be placed in Operations to avoid exceeding the maximum limit in Finance. This forces U into Marketing, which violates the condition that W and U work in different departments.

YourMockTest.com — Free Study Material

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U
Operations	Z, S, Q

11. S and T work in different departments. So, the final arrangement:

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U, T
Operations	Z, S, Q

X, U and T work in the Marketing department.

Hence, the correct answer is 'X, U, T'

Q92. Answer: (e) S – Operations

Given: Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

1. Q works in operations.

2. Z works in the same department as S but doesn't work in marketing.

3. R and X doesn't work in operations and both of them work in different departments.

4. W and R work in the same department but not with S.

There are 3 cases i.e., Case 1, Case 2, and Case 3.

Departments	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Finance	Z, S, X	X	W, R
Marketing	W, R	W, R	X
Operations	Q	Z, S, Q	Z, S, Q

5. Y and V work in the same department.

6. V doesn't work in marketing.

7. U doesn't work in finance.

8. Z and U work in different departments.

9. W and U work in different departments.

10. Not more than two persons works with U.

Case 2 is eliminated because there is no valid place for U.

Case 1 is eliminated because Y and V must be placed in Operations to avoid exceeding the maximum limit in Finance. This forces U into Marketing, which violates the condition that W and U work in different departments.

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U
Operations	Z, S, Q

11. S and T work in different departments. So, the final arrangement:

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U, T
Operations	Z, S, Q

Correct combination: S – Operations

Hence, the correct answer is 'S – Operations

YourMockTest.com — Free Study Material

Q93. Answer: (b) Marketing

Given: Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

1. Q works in operations.
2. Z works in the same department as S but doesn't work in marketing.
3. R and X doesn't work in operations and both of them work in different departments.
4. W and R work in the same department but not with S.

There are 3 cases i.e., Case 1, Case 2, and Case 3.

Departments	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Finance	Z, S, X	X	W, R
Marketing	W, R	W, R	X
Operations	Q	Z, S, Q	Z, S, Q

5. Y and V work in the same department.
6. V doesn't work in marketing.
7. U doesn't work in finance.
8. Z and U work in different departments.
9. W and U work in different departments.
10. Not more than two persons works with U.

Case 2 is eliminated because there is no valid place for U.

Case 1 is eliminated because Y and V must be placed in Operations to avoid exceeding the maximum limit in Finance. This forces U into Marketing, which violates the condition that W and U work in different departments.

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U
Operations	Z, S, Q

11. S and T work in different departments. So, the final arrangement:

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U, T
Operations	Z, S, Q

T works in Marketing.

Hence, the correct answer is 'Marketing'

Q94. Answer: (c) Y works in Finance department.

Given: Ten persons – Q, R, S, T, U, V, W, X, Y and Z – work in a company. Each of them belongs to one of the three different departments: Finance, Marketing, and Operations. Each department has at least three persons, but not more than four persons.

1. Q works in operations.
2. Z works in the same department as S but doesn't work in marketing.
3. R and X doesn't work in operations and both of them work in different departments.
4. W and R work in the same department but not with S.

There are 3 cases i.e., Case 1, Case 2, and Case 3.

Departments	Persons (Case 1)	Persons (Case 2)	Persons (Case 3)
Finance	Z, S, X	X	W, R
Marketing	W, R	W, R	X
Operations	Q	Z, S, Q	Z, S, Q

5. Y and V work in the same department.

6. V doesn't work in marketing.

7. U doesn't work in finance.

8. Z and U work in different departments.

9. W and U work in different departments.

10. Not more than two persons works with U.

Case 2 is eliminated because there is no valid place for U.

Case 1 is eliminated because Y and V must be placed in Operations to avoid exceeding the maximum limit in Finance. This forces U into Marketing, which violates the condition that W and U work in different departments.

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U
Operations	Z, S, Q

11. S and T work in different departments. So, the final arrangement:

Departments	Persons (Case 3)
Finance	Y, V, W, R
Marketing	X, U, T
Operations	Z, S, Q

True statement: Y works in the Finance department.

Hence, the correct answer is 'Y works in the Finance department'

Q95. Answer: (d) Five

The alphabets are positioned as in the following order:

Given word → IMPORTANT

The given word can be represented as follows,

So, In the forward direction → "MO", "PR", "OT" and "MT".

In the backward direction → "OP".

Hence, Five pairs are there in the word 'IMPORTANT', each of which has as many letters between them in the word (both forward and backward direction) as they have between them in the English Alphabet

Hence, the correct answer is "Five".

Q96. Answer: (c) Four

Given: Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

1. Four boxes are kept between box R and the box which has Black colour.

2. The box which has White colour is kept immediately above box R.

3. As many boxes are kept above box Q as below box R.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

Box No.	Boxes (Case 1)	Boxes (case 2)	Boxes (Case 3)
7	Q	(Black)	White
6	(Black)	Q	R
5			
4			
3		White	
2	White	R	Q
1	R		(Black)

4. Box Q is kept above the box which has Blue colour.

5. The box which has Blue colour is kept three boxes above the box P.

Case 3 is eliminated because there is no space left for Blue colour.

Box No.	Boxes (Case 1)	Boxes (case 2)
7	Q	(Black)
6	(Black)	Q
5	(Blue)	
4		(Blue)
3		White
2	P (White)	R
1	R	P

6. Box U is kept three boxes above the box which has Red colour.

7. The number of boxes kept between box S and box T is one more than the number of boxes kept between box T and the box which has White

colour.

8. Box V is kept below the box which has Brown colour but not just below.

9. The box which has Green colour is kept above the box which has Grey colour.

Case 2 is eliminated because there is no position for T.

Box No.	Boxes (Case 1)
7	Q (Brown)
6	U (Black)
5	S (Blue)
4	V (Green)
3	T (Red)
2	P (White)
1	R (Grey)

Four boxes are kept between box U and the box which has Grey colour.

Hence, the correct answer is ‘Four’.

Q97. Answer: (a) Only I

Given: Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

1. Four boxes are kept between box R and the box which has Black colour.

2. The box which has White colour is kept immediately above box R.

3. As many boxes are kept above box Q as below box R.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

Box No.	Boxes (Case 1)	Boxes (case 2)	Boxes (Case 3)
7	Q	(Black)	White
6	(Black)	Q	R
5			
4			
3		White	
2	White	R	Q
1	R		(Black)

4. Box Q is kept above the box which has Blue colour.

YourMockTest.com — Free Study Material

5. The box which has Blue colour is kept three boxes above the box P.

Case 3 is eliminated because there is no space left for Blue colour.

Box No.	Boxes (Case 1)	Boxes (case 2)
7	Q	(Black)
6	(Black)	Q
5	(Blue)	
4		(Blue)
3		White
2	P (White)	R
1	R	P

6. Box U is kept three boxes above the box which has Red colour.

7. The number of boxes kept between box S and box T is one more than the number of boxes kept between box T and the box which has White

colour.

8. Box V is kept below the box which has Brown colour but not just below.

9. The box which has Green colour is kept above the box which has Grey colour.

Case 2 is eliminated because there is no position for T.

Box No.	Boxes (Case 1)
7	Q (Brown)
6	U (Black)
5	S (Blue)
4	V (Green)
3	T (Red)
2	P (White)
1	R (Grey)

I. Box P is kept above box S - False

II. Odd number of boxes are kept between box Q and box T - True

III. Box Q has Brown colour - False

Hence, the correct answer is ‘Only I’.

Q98. Answer: (d) Box V

Given: Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

1. Four boxes are kept between box R and the box which has Black colour.

2. The box which has White colour is kept immediately above box R.

3. As many boxes are kept above box Q as below box R.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

Box No.	Boxes (Case 1)	Boxes (case 2)	Boxes (Case 3)
7	Q	(Black)	White
6	(Black)	Q	R
5			
4			
3		White	
2	White	R	Q

YourMockTest.com — Free Study Material

1	R		(Black)

4. Box Q is kept above the box which has Blue colour.

5. The box which has Blue colour is kept three boxes above the box P.

Case 3 is eliminated because there is no space left for Blue colour.

Box No.	Boxes (Case 1)	Boxes (case 2)
7	Q	(Black)
6	(Black)	Q
5	(Blue)	
4		(Blue)
3		White
2	P (White)	R
1	R	P

6. Box U is kept three boxes above the box which has Red colour.

7. The number of boxes kept between box S and box T is one more than the number of boxes kept between box T and the box which has White

colour.

8. Box V is kept below the box which has Brown colour but not just below.

9. The box which has Green colour is kept above the box which has Grey colour.

Case 2 is eliminated because there is no position for T.

Box No.	Boxes (Case 1)
7	Q (Brown)
6	U (Black)
5	S (Blue)
4	V (Green)
3	T (Red)
2	P (White)
1	R (Grey)

Box V is kept three boxes below box Q.

Hence, the correct answer is ‘Box V’.

Q99. Answer: (a) Box R- Grey colour

Given: Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

1. Four boxes are kept between box R and the box which has Black colour.

2. The box which has White colour is kept immediately above box R.

3. As many boxes are kept above box Q as below box R.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

Box No.	Boxes (Case 1)	Boxes (case 2)	Boxes (Case 3)
7	Q	(Black)	White
6	(Black)	Q	R
5			
4			
3		White	

YourMockTest.com — Free Study Material

2	White	R	Q
1	R		(Black)

4. Box Q is kept above the box which has Blue colour.

5. The box which has Blue colour is kept three boxes above the box P.

Case 3 is eliminated because there is no space left for Blue colour.

Box No.	Boxes (Case 1)	Boxes (case 2)
7	Q	(Black)
6	(Black)	Q
5	(Blue)	
4		(Blue)
3		White
2	P (White)	R
1	R	P

6. Box U is kept three boxes above the box which has Red colour.

7. The number of boxes kept between box S and box T is one more than the number of boxes kept between box T and the box which has White

colour.

8. Box V is kept below the box which has Brown colour but not just below.

9. The box which has Green colour is kept above the box which has Grey colour.

Case 2 is eliminated because there is no position for T.

Box No.	Boxes (Case 1)
7	Q (Brown)
6	U (Black)
5	S (Blue)
4	V (Green)
3	T (Red)
2	P (White)
1	R (Grey)

Correct combination: Box R- Grey colour

Hence, the correct answer is ‘Box R- Grey colour’.

Q100. Answer: (d) Box V

Given: Seven boxes- P, Q, R, S, T, U and V are kept one above the other in the form of the stack. Each box has different colours- Green, Red, White, Grey, Brown, Blue and Black but not in the same order.

1. Four boxes are kept between box R and the box which has Black colour.

2. The box which has White colour is kept immediately above box R.

3. As many boxes are kept above box Q as below box R.

There are 3 cases i.e., Case 1, Case 2 and Case 3.

Box No.	Boxes (Case 1)	Boxes (case 2)	Boxes (Case 3)
7	Q	(Black)	White
6	(Black)	Q	R
5			
4			

YourMockTest.com — Free Study Material

3		White	
2	White	R	Q
1	R		(Black)

4. Box Q is kept above the box which has Blue colour.

5. The box which has Blue colour is kept three boxes above the box P.

Case 3 is eliminated because there is no space left for Blue colour.

Box No.	Boxes (Case 1)	Boxes (case 2)
7	Q	(Black)
6	(Black)	Q
5	(Blue)	
4		(Blue)
3		White
2	P (White)	R
1	R	P

6. Box U is kept three boxes above the box which has Red colour.

7. The number of boxes kept between box S and box T is one more than the number of boxes kept between box T and the box which has White
colour.

8. Box V is kept below the box which has Brown colour but not just below.

9. The box which has Green colour is kept above the box which has Grey colour.

Case 2 is eliminated because there is no position for T.

Box No.	Boxes (Case 1)
7	Q (Brown)
6	U (Black)
5	S (Blue)
4	V (Green)
3	T (Red)
2	P (White)
1	R (Grey)

Box V has Green colour.

Hence, the correct answer is ‘Box V’.

More previous year papers and mock tests: **www.yourmocktest.com/pyq**

YourMockTest.com — Free Study Material