SBI PO Prelims Memory Based Paper (Held on: 21 Nov 2021 Shift 2) (Previous Year Paper)

SBI Probationary Officer (PO) • 2021 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Directions

Read the passage given below and then answer the questions given below the passage. Some words may be highlighted for your attention. Pay careful attention.

Since 2011, the world's steelmakers have been feeling the heat. Prices for the metal have halved due to flatlining demand and rising exports from China, which now smelts 50% of the global output. Profits at steel firms around the world have fallen into a sea of red ink, shuttering plants and laying off workers. New measures designed to raise the price of carbon in the EU to help the bloc meet its climate-change targets, voted on by the European Parliament on February 15th, threaten to increase the pressure. The industry is a heavy user of carbon; responsible for 5% of global emissions. Some steel firms have responded by calling for carbon tariffs to prevent the measures undermining their international competitiveness. How do border taxes on carbon emissions work? And are they a good idea?

The reforms the European Parliament passed this week are an attempt to increase the price of carbon by cutting the emissions allowances granted to firms. The measures include the EU's first border tax on carbon, levied on cement imports. Steel firms, also heavy users of carbon, say their exclusion from this scheme is unfair. This week Lakshmi Mittal, the CEO of Arcelor Mittal, the world's biggest steelmaker, offered his support for the tax. Similar proposals in America are also being mooted. This month a group of Republicans—including two former treasury secretaries, James Baker and George Shultz—proposed a similar levy on imports at the border, as well as for domestic production. Their plan includes a carbon tax on imports of up to $40 for each tonne produced by their manufacture, which would increase over time. The income from the levy would then be distributed to American households on a quarterly basis to make up for higher consumer prices.

Proponents of such policies say that they remove the distortions caused by carbon taxes. Under the EU's reforms, steelmakers in Europe would pay up to €30 ($32) to emit a tonne of carbon, but foreign producers selling in the EU would not have to pay a cent. This harms the cost competitiveness of European producers. It also encourages firms to move production outside the bloc rather than prompt them to use cleaner methods. Taxing imports on their embodied carbon—where this has not already happened in their country of origin—would level the playing field between different systems, they say. It would also give an incentive to countries without controls on emissions to introduce their own carbon taxes, in order to grab a share of the revenues.

Economists say the idea works in theory. But many think it would be much more difficult in practice. One big problem is the difficulty of calculating the embodied carbon in imports. This is not easy even for simple sheets of steel; for items made of several bits of metal from different sources, it is hellishly complex. Disputes over this could produce reams of litigation at the WTO between various systems. But the reason why trade economists are so squeamish about carbon tariffs is the fear that they could cause a tariff war. The EU and America are already in a politically driven tit-for-tat over steel duties with China; they have risen in some cases to over 500%. Rather than prod countries to tighten their own regulations, new carbon tariffs could make that battle more vicious. Worse still, lobby groups could easily pervert the charges into a form of quiet protectionism. Donald Trump's presidency has already rattled free-traders' nerves. Why risk giving the protectionists another opening?

Q1. How can raising carbon prices affect the steel industry?

(a) Raising carbon prices cannot affect the steel industry in anyway.

(b) The steel industry is a heavy user of carbon and accounts for 5% of the global carbon emissions. Thus raising carbon prices will increase overall cost for the steel industry ultimately lowering their profit margin and cause further increase in already existing problems like closure of plants and laying off of workers.

(c) The steel industry is a heavy user of carbon accounting for 5% of the global carbon emissions. Thus if it has to pay more fines, it will cut it from the salary of the workers causing worker unrest.

(d) The proposed increase in price has been put forth by the European Union and it is to be implemented on the European steel industries. This would cause the European steel industry to lose out against the Chinese steel industry in the global

market as China doesn't have extra taxes on them.

(e) The steel industries are dying as the there is less requirement of steel in this plastic age and a further rise in carbon prices would provide a death knell as they would lose out on their minimum profit margin.

Q2. Why do carbon taxes cause firms to move production outside the bloc?

(a) Currently, carbon taxes are applicable on the firms that produce steel inside the European bloc's territory whereas any foreign producer selling to the bloc need not pay the taxes. This creates price disparity between the producers prompting many to produce outside the bloc and sell back to the bloc increasing their profit margin.

(b) Currently, carbon taxes are applicable on the firms that produce steel inside the European bloc's territory and also outside the bloc's territory. Thus the firms are moving production outside the bloc as well as selling to escape the additional burden of the carbon taxes instead of moving to more cleaner practices of steel production.

(c) Carbon taxes where put into play to control the emission of carbon by steel producing firms. But it has failed to create a level playing field for the firms as they are losing out against foreign competitors.

(d) Carbon taxes are only applicable on firms producing inside the European territory. This lowers the profit margin of the firms and also forces them to adopt more cleaner methods of production. Thus it allows the lowering of carbon emission.

(e) Carbon taxes are not causing firms to produce outside the bloc but the forced methods of cleaner steel production is prompting many firms to move production outside the bloc.

Q3. 'One big problem is the difficulty of calculating the embodied carbon in imports.' Which option can be called an inference from this sentence?

(a) Carbon particles are omnipresent in all things and hence it is difficult to calculate their quantity for purpose of taxation.

(b) Carbon particles are limited in their availability and hence are difficult to calculate.

(c) Carbon taxation is good only in theory.

(d) carbon taxation is good in practice.

(e) Carbon taxation should only be applied to firms producing within a certain territory.

Q4. Which word correctly describes the author's opinion regarding protectionism?

(a) Amused

(b) Terrified

(c) Jovial

(d) Threatened

(e) Sceptical

Q5. From the given options choose the correct synonym for the word 'undermining' in context of the given passage.

(a) Sabotage

(b) Erode

(c) Undercut

(d) Hurt

(e) Subvert

Q6. From the given options choose the correct antonym for the word 'vicious' in context of the given passage.

(a) Atrocious

(b) Mild

(c) Savage

(d) Civilized

(e) Good

Q7. Whose presidency has rattled the free - traders' nerves?

(a) Barrack Obama

(b) Donald Trump

(c) Vladimir Putin

(d) Narendra Modi

(e) Pranab Mukherjee

Q8. Directions: In a question given below an incomplete sentence that must be filled/ completed with one of the sentences/phrases given below i.e. one of the sentences/phrases can be fit into the given blanks. Choose the correct option and complete the given sentences.

Cyber physical systems _____ due to the destruction of conventional jobs and the mechanization of jobs.

(a) deals with training youth for new kinds of jobs that would have ben created
(b) deal with training youth for new kinds of jobs that would be create
(c) deal with train youth for new kinds of jobs that would be created
(d) deals with training youth for new kinds of jobs that would be created
(e) deal with training youth for new kinds of jobs that would be created

Q9. Directions: In a question given below an incomplete sentence that must be filled/ completed with one of the sentences/phrases given below i.e. one of the sentences/phrases can be fit into the given blanks. Choose the correct option and complete the given sentences.

Zero budget farming is a form of natural farming _____.

(a) which is neither chemical-loaded or organic with its reliance on manure.
(b) which is neither chemical-loaded nor organic with its reliance on manure.
(c) which is either chemical-loaded nor organic with its reliance on manure.
(d) who is neither chemical-loaded nor organic with its reliance on manure.
(e) which is neither chemical-loaded nor organic with it's reliance on manure.

Q10. In the following question, two columns are given containing three phrases each. In the first column phrases are A, B, and C and in the second column, the phrases are D, E, and F. A phrase from the first column may or may not connect with phrase from the second column to make grammatically and contextually correct sentence. There are five options, four of which display the sequence(s) in which the phrases can be joined to form a grammatically and contextually correct sentence. If none of the options forms a correct sentence after combination, select 'None of these' as your answer.

Column 1	Column 2
A. There is always a back-to-school atmosphere at Westminster in the autumn, but it will be intensified this	D. investment to fund life at university, a survey has suggested.
B. Students facing a financial shortfall have increasingly turned to cryptocurrency	E. industry and is unlikely to improving before the end of the year, according to Vauxhall Motors.
C. The global shortage of computer chips has had a significant impact on the car	F. year by the resumption of parliamentary business unmuffled by Covid restrictions.

(a) B - E, C - D
(b) A - E, B - D, C - F
(c) A - F, B - D
(d) A - F, B - E, C - D
(e) None of these

Q11. In the following question, two columns are given containing three phrases each. In the first column phrases are A, B, and C and in the second column, the phrases are D, E, and F. A phrase from the first column may or may not connect with phrase from the second column to make grammatically and contextually correct sentence. There are five options, four of which display the sequence(s) in which the phrases can be joined to form a grammatically and contextually correct sentence. If none of the options forms a correct sentence after combination, select 'None of these' as your answer.

Column 1	Column 2
A. A new analysis suggests the current level of UK spending to	D. for what happens to batteries at the end of their lives, to reduce reliance on mining and keep materials in circulation.
B. A project that seeks to develop new kelp strains for the seaweed aquaculture sector	E. combat climate change is lagging behind what advisers say is needed.

C. As the automotive industry starts to transform, experts say now is the time to plan	F. has been awarded funding from World Wildlife Fund (WWF), with support from the Bezos Earth Fund.

(a) A-F, B-D, C-E
(b) B-E, C-D
(c) A-E, B-F, C-D
(d) A-D, B-F
(e) None of these

Q12. In the question below, three statements are given which may or may not be grammatically correct. Choose the sentence/sentences that is/are grammatically incorrect.

A. Venus is more nearer to Earth than Jupiter and so, appears brighter in the night sky; however, this alone does not account for its larger-than-life appearance.

B. The British fixation with the weather seems to link readily with a pessimistic view of Britain's vulnerability to flooding.

C. In one of the most widely scrutinized CEO succession ever, Microsoft directors selected insider Satya Nadella to run the company.

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

Q13. In the question below, three statements are given which may or may not be grammatically correct. Choose the sentence/sentences that is/are grammatically incorrect.

A. I will have been working in this organization for eleven years next year.

B. Meanwhile, the gallant Jos had agreed to escort her sister and the major's wife, the bulk whose goods and chattels, including the famous bird of paradise and the turban, was with the regimental baggage.

C. The manager wanted to know whether the problem was rectified.

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

Q14. Directions: Given below are 3 sentences, one or more of them is incorrect. Identify the one(s) that are incorrect.

(A) The council is encouraging the development of the property for both employment as well as recreation.

(B) Instead of simply punishing them, the system encourages offenders to modify their behaviour.

(C) The new teaching methods encourage children to think for themselves.

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

Q15. Directions: Given below are 3 sentences, one or more of them is incorrect. Identify the one(s) that are incorrect.

(A) She has been a stalwart supporter of the party for many years.

(B) He often extol the virtues of his students.

(C) Would all those in favour please raise their hands?

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

(e) B and C

Q16. Directions: Given below are 3 sentences, one or more of them is incorrect. Identify the one(s) that are incorrect.

(A) Less profitable business operations will have difficulty in finding financial support.

(B) Did you get any sense of how they might react?

(C) It's important to distinguished between business and pleasure.

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

Q17. Arrange the following parts of a sentence in the correct order and mark the correct option.

A. remain indifferent

B. stride forward

C. even if others

D. you should

E. to the humanitarian cause

(a) CABED
(b) BACED
(c) DBCEA
(d) ECBAD
(e) CAEDB

Q18. Arrange the following parts of a sentence in the correct order and mark the correct option.

A. field of science

B. concerned with

C. robotics is the

D. and technology

E. creating robots

(a) CAEBD
(b) CADBE
(c) CADEB
(d) CBADE
(e) ACDBE

Q19. The question below contains five scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence.

A. 16.8% in May 2021, with six sectors reporting

B. from May 2020 when the country was

C. in the middle of a national lockdown

D. positive growth due to the base effects

E. output from India's eight core industries grew

(a) EDCAB
(b) ECBAD
(c) EADBC
(d) EADCB
(e) DBACE

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Q20. Direction: There are two blanks in the sentence given below. From the pair of words given in the options, choose the one that fits into the blanks most appropriately.

____ dedication or loyalty and excessive adoration or appreciation are some of the ____ used by the subordinates to get into the good books of their managers.

(a) Aggressive, behaviour
(b) Sincere, quality
(c) Ostentatious, tactics
(d) Controversial, deterrence
(e) Comprehensive, innovation

Q21. Direction: There are two blanks in the sentence given below. From the pair of words given in the options, choose the one that fits into the blanks most appropriately.

Children are _____ and so the parents have to adopt a well-balanced approach towards their ____ on the psychological, emotional and physical aspects.

(a) Fragile, upbringing
(b) Robust, breeding
(c) Competitive, upgrading
(d) Aggressive, substitution
(e) Adamant, abeyance

Q22. Direction: There are two blanks in the sentence given below. From the pair of words given in the options, choose the one that fits into the blanks most appropriately.

A good teacher always has a ____ for knowledge and tries to ____ the same in his/her students.

(a) Delight, deplore
(b) Thirst, instill
(c) Aversion, fabricate
(d) Need, abjure
(e) Clarity, reform

Q23. Directions: The question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fit the meaning of the sentence as a whole.

The mother-in-law ranted at her daughter-in-law about her _____ for eating and _____ to work.

(a) vibrant, able
(b) charge, outlay
(c) fondness, aversion
(d) rare, unusual
(e) exceptional, vivid

Q24. Directions: The question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fit the meaning of the sentence as a whole.

Fresh food is so _____ that prices have _____.

(a) crawled, abundant
(b) poked, generous
(c) darted, tolerable
(d) surged, lavish
(e) scarce, rocketed

Q25. Directions: The question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fit the meaning of the sentence as a whole.

As a police officer, you must be _____ of the fact some individuals will try to hurt you during their _____ attempts.

(a) cognizant, escape
(b) abide, insensible
(c) rescue, oblivious
(d) elude, vigilant

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(e) evade, wary

Directions

Read the following sentences. The second and fifth sentences are fixed and are numbered 2 and 5 respectively. The remaining are labeled P, Q, R,S and T. Rearrange these five sentences to form a meaningful paragraph and choose the proper sequence from the given options.

P. Research demonstrates that the fossil is over one million years old, eclipsing the previous record of hippo in the UK by at least 300,000 years and filling an important gap in the British fossil record.

2. In a new study published in the Journal of Quaternary Science and co-authored with researchers from Royal Holloway, University of London, the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

Q. Excavations at Westbury Cave in Somerset, led by University of Leicester PhD student Neil Adams, uncovered a million-year-old hippo tooth which shows the animal roamed Britain much earlier than previously thought.

R. Professor Danielle Schreve, co-author of the study, said that Hippos are not only fabulous animals to find but they also reveal evidence about past climates.

5. Scientists know remarkably little about the fauna, flora and environments in Britain between about 1.8 and 0.8 million years ago, a key period when early humans were beginning to occupy Europe.

S. It was much larger than the modern African hippo, weighing around 3 tonnes, and was even more reliant on aquatic habitats than its living relative.

T. But new research at Westbury Cave is helping to fill in this gap and it shows that during this interval there were periods warm and wet enough to allow hippos to migrate all the way from the Mediterranean to southern England.

Q26. Which of the following will be the first sentence after rearrangement?

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

Q27. Which of the following will be the fourth sentence after rearrangement?

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

Q28. Which of the following will be the sixth sentence after rearrangement?

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

Q29. Which of the following will be the third sentence after rearrangement?

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

Q30. Which of the following will be the last(seventh) sentence after rearrangement?

(a) R
(b) Q
(c) T
(d) P

(e) S

QUANTITATIVE APTITUDE

Q31. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.

I. $12x^2 – 7x + 1 = 0$

II. $20y^2 – 9y + 1 = 0$

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) x = y or no relationship could be established

Q32. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.

I. $12x^2 + 5x – 3 = 0$

II. $12y^2 – 17y + 6 = 0$

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) x = y or no relationship could be established

Q33. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.

I. $x^2 + 17x + 52 = 0$

II. $6y^2 + y – 40 = 0$

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) x = y or no relationship could be established

Q34. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer-

I. $2x^2 + 11x + 12 = 0$

II. $5y^2 + 27y + 10 = 0$

(a) if x < y
(b) if x > y
(c) if x ≤ y
(d) if x ≥ y
(e) if x = y or no relation can be established

Q35. In the given question, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate answer.

I. $12x^2 - 8\sqrt{5}x + 5 = 0$

II. $5y^2 - 9y + 4 = 0$

(a) x > y
(b) x < y
(c) x ≥ y
(d) x ≤ y
(e) x = y or no relation can be obtained

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Q36. What approximate value should come in the place of question mark (?) in the following question?

255.89 + (15.98)³ ÷ 16.09 = 2^? × 64 ÷ 2

(a) 2
(b) 3
(c) 4
(d) 5
(e) 6

Q37. What approximate value should come in the place of question mark (?) in the following question?

? = {21.88 × 5.25 + 581.98 ÷ 1.9 + √575.86 × 4.95 ÷ 2.97}1/2

(a) 21
(b) 17
(c) 31
(d) 19
(e) 29

Q38. What approximate value should come in the place of question mark (?) in the following question?

(4.28 × 4.98)% of (29.89 × 63.84) + 449.9 = 629.8 + ?

(a) 146
(b) 192
(c) 204
(d) 226
(e) 176

Q39. What approximate value should come in the place of question mark (?) in the following question?

(1011.94 ÷ 22.943) + (1127.88 ÷ 2.97) = 209.98 + 6.97 × ?

(a) 15
(b) 45
(c) 22
(d) 30
(e) 36

Q40. What approximate value should come in the place of question mark (?) in the following question?

4499.95 + 499.95 ÷ 24.95 – 919.92 = 17.91 × ?

(a) 150
(b) 120
(c) 100
(d) 200
(e) 180

Q41. What approximate value should come in the place of question mark (?) in the following question?

598.01 ÷ 22.93 + √143.94 = √? + 287.88 ÷ 15.89

(a) 200
(b) 350
(c) 600
(d) 500
(e) 400

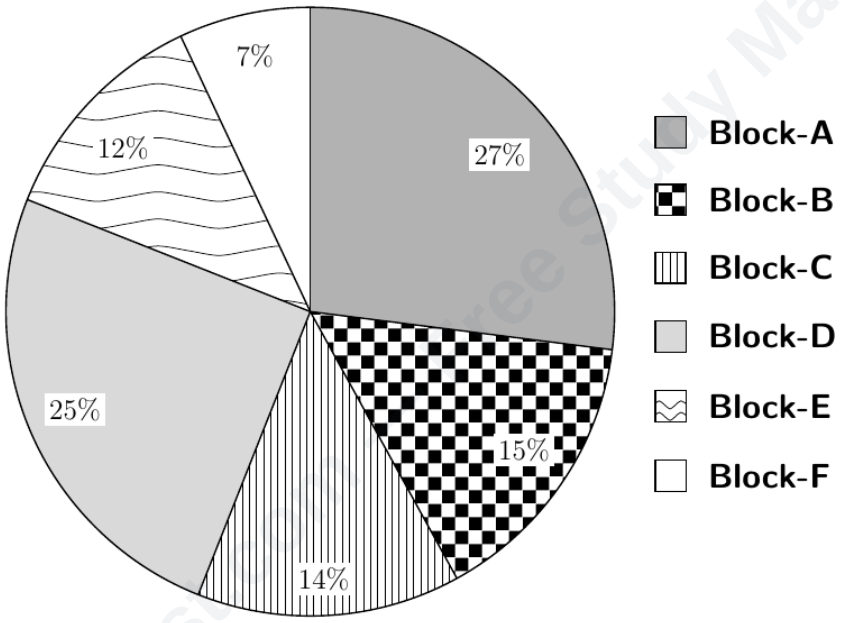
Directions

Direction: Study the given pie chart carefully and answer the following questions accordingly.

Given pie chart shows the percentage of people living in six different blocks of a society.

Total number of people = 2000

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Q42. If 5/7th of the people who live in Block-C are female, then number of males living in Block-C is approximately what percentage of the total number of peoples who live Block-F?

(a) 57%
(b) 42%
(c) 63%
(d) 69%
(e) 51%

Q43. What is the difference between the total number of people who live in Block-A and Block-F together and the total number of people who live in Block-C and Block-E together?

(a) 146
(b) 156
(c) 180
(d) 160
(e) None of these

Q44. If people living in Block-E is increased by 40% and percentage of people living in Block-A decreased by 20%, then what will be the total number of people living in Block-A and Block-E together?

(a) 634
(b) 768
(c) 658
(d) 778
(e) None of these

Q45. Find the average of the total number of people living in block-A, block-B and block-E together?

(a) 400
(b) 360
(c) 450
(d) 380
(e) 270

Q46. What is the respective ratio of the number of people who live in Block-E and the number of people who live in Block-B?

(a) 6 : 7
(b) 4 : 7
(c) 3 : 5

(d) 4 : 5
(e) None of these

Directions

Directions: Read the given table carefully and answer the following questions.

The table shows the percentage number of males, females, and children travelers from different cities.

City	Male	Female	Children	Total
Delhi	•	50%	•	6700
Mumbai	•	30%	25%	8000
Bangalore	35%	•	15%	•
Total	9430	•	•	23700

Q47. The Number of Male travelers from Delhi is approximately what percent of total male travelers from three cities?
(a) 20%
(b) 31%
(c) 23%
(d) 25%
(e) 28%

Q48. Find the difference between the number of child travelers from Bangalore and Delhi.
(a) 1165
(b) 680
(c) 925
(d) 1015
(e) 818

Q49. Find the ratio between male and female travelers from Bangalore.
(a) 5 : 7
(b) 7 : 10
(c) 7 : 4
(d) 3 : 8
(e) 4 : 3

Q50. If 10% of female travelers are first-time travelers from three cities then the approximate average number of old female travelers of three cities are –
(a) 3480
(b) 3370
(c) 3460
(d) 3240
(e) 3075

Q51. Approximately, the number of child travelers from all three cities is approximately what percent less than the number of Male travelers from all three cities?
(a) 69%
(b) 65%
(c) 57%
(d) 61%
(e) 50%

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Q52. The Number of students in section A and B are 40 and 60 respectively. The average score in physics of students in section A is 35 and that of students in section A and B together is 50. What is the average score of the students of section B in physics?

(a) 55
(b) 45
(c) 60
(d) 50
(e) None of these

Q53. The ratio of sale of mobile phones of a shop on Monday, Tuesday, Wednesday and Thursday is 5 : 4 : 8 : 3. The sale on Wednesday was 160. Find the number of mobile phones sold on Friday if the sale of Friday is 20% more than Monday.

(a) 30
(b) 60
(c) 100
(d) 120
(e) 240

Q54. Ram spends 30% of his monthly income on food and 50% of the remaining on household expenses and saves the remaining Rs. 10,500. Find the monthly income of Shyam if monthly income of Ram is 25% less than that of Shyam.

(a) Rs. 32,000
(b) Rs. 35,000
(c) Rs. 40,000
(d) Rs. 38,000
(e) Rs. 28,000

Q55. Rakesh's and Shanu's present ages are in the ratio 5: X. Shailu is 9 years older than Rakesh. Shailu will be 33 years of age after 9 years. The difference between the ages of Shanu and Rakesh is the same as Shailu's present age. What should be the value of X?

(a) 15
(b) 20
(c) 13
(d) 17
(e) 14

Q56. The difference between compound interest and simple interest for a certain amount of the sum for 2 years at the rate of 25 % is Rs. 25. Find the value of the principal and the ratio of compound interest to simple interest.

(a) 400, 9/8
(b) 200, 9/8
(c) 400, 11/10
(d) 200, 11/10
(e) None of these

Q57. A and B together can complete a piece of work in 40 days, B and C can do it in 60 days and C and A can do it in 30 days. A, B, and C together can complete half of the actual work in-

(a) 49/3 days
(b) 10/3 days
(c) 40/3 days
(d) 20/3 days
(e) 70/3 days

Q58. A 20 litres solution containing milk and water in the ratio 2 : 3 is mixed with 18 litres of 5 : 4 water and milk solution. What is the ratio of milk and water in the resultant mixture?

(a) 16 : 24
(b) 24 : 16

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(c) 8 : 11
(d) 11 : 8
(e) None of these.

Q59. A man is running 400 m ahead of an engine of length 100m with a speed of 5 m/s. If the speed of the train in the same direction is 25 m/s, find in how much time the train will cross the man?

(a) 25 sec
(b) 22 sec
(c) 30 sec
(d) 35 sec
(e) None of these

Q60. Anil, Aman, and Ankur entered into the garment business. Anil invests 2 times the amount as invested by Aman and Aman invests 3 times the amount as invested by Ankur. At the end of the year, the profit earned is Rs. 1,00,000. Find the share of each partner.

(a) Rs. 60,000; Rs. 30,000 and Rs. 10,000
(b) Rs. 50,000; Rs. 25,000 and Rs. 25,000
(c) Rs. 75,000; Rs. 12,500 and Rs. 12,500
(d) Rs. 80,000; Rs. 10,000 and Rs. 10,000
(e) Rs. 60,000; Rs. 20,000 and Rs. 20,000

Q61. In a boutique, a girl prepared a dress for Rs. 3200 and marked it by 50% and she gave a discount of 20%. A customer came to her and bargained with her for more discount of 20% on the already discounted dress. Then what is the profit/loss earned by the girl?

(a) Rs. 556
(b) Rs. 156
(c) Rs. 128
(d) Rs. 132
(e) Rs. 126

Q62. The speed of a power boat in still water is 144 km/hr and the speed of a stream is 54 km/hr. If Boat takes 0.2 hours more in upstream than to go downstream for the same distance, then find the distance travelled by boat in one directional way.

(a) 33 km
(b) 22 km
(c) 44 km
(d) 55 km
(e) None of these

Q63. The radius of the circle is 13 cm more than the breadth of a rectangle. The area of the circle is 3850 sq.cm. The circumference of the circle is equal to the perimeter of a rectangle. The area of the rectangle is equal to the area of a square. Find the perimeter of a square.

(a) 352 cm
(b) 164 cm
(c) 176 cm
(d) 188 cm
(e) 196 cm

Q64. A urn contains 7 blue pens & 6 red pens. 3 pens are drawn at random & then find the probability that 2 pens are blue & 1 pen is red.

(a) 63/143
(b) 7/143
(c) 6/143
(d) 7/189
(e) 71/143

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Q65. 15 taps are fitted in a tank in which some are inlet taps and some are outlet taps. Each inlet tap can fill the tank in 30 hours and each outlet tap can empty the tank in 60 hours. Find the number of inlet taps if the whole tank is filled in 4 hours when all the 15 taps are open.

(a) 12
(b) 13
(c) 10
(d) 11
(e) 9

REASONING ABILITY

Q66. If in a certain code language BEAUTIFUL is coded as MVGJUVBFC, then how PHENOMENON will be coded in the same code language?

(a) OPOFSPOFIQ
(b) OPOFNPOFIQ
(c) OPOXNPOFIQ
(d) OPOFNPLFIQ
(e) OPOFNQOFIQ

Directions

Two friends A and B are playing in a park. After some time, A went to his home and B went to his office. A walked 8m towards North from the park and turned right and walked for 8m then took a right turn and walked for 8m to reach the mall then started walking in the north-east direction and covered a distance of 13m then started walking in the South direction and covered a distance of 12m to reach the Bus stand and finally turned left and walked for 6m to reach home. B walked 2m towards the east from the park and turned left and walked 6 m then turned right and walked 2 m. He then turned right and walked 9m and turned left and walked 2 m and again turned right and walked 2 m and finally turned left and walked 2 m to reach office.

Q67. What is the total distance covered by A from the park to the mall?

(a) 20 m
(b) 24 m
(c) 19 m
(d) 16 m
(e) 12 m

Q68. What is the shortest distance between the mall and the bus stand?

(a) 5 m
(b) 25 m
(c) 6 m
(d) 7 m
(e) 9 m

Q69. In which direction is B's office with respect to B's initial position?

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

Directions

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

There are eight people: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu. They all were born in different years viz. 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998 but not necessarily in the same order. But the date and month of birth of all these persons are the same. The calculation is done with respect to the present year 2021 and assuming months and date to the same.

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The age of Mishu is a prime number. Two people were born between Mishu and Nishu. Two were born between Rishu and Ashu. The difference between the age of Nishu and Prishu is 6years. The age of Prishu is not divisible by 8. The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu. Rishu was born just after Krishu. Dishu was born just before Ashu.

Q70. Who was born on 1985?

(a) Krishu
(b) Nishu
(c) Ashu
(d) Dishu
(e) Rishu

Q71. Whose age is equal to the average age of Mishu and Rishu?

(a) Prishu
(b) Nishu
(c) Ashu
(d) Krishu
(e) Vishu

Q72. How many people are born between Vishu and Dishu?

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

Q73. Whose age is a multiple of 5?

(a) Prishu
(b) Nishu
(c) Mishu
(d) Ashu
(e) Krishu

Q74. How many people are born between Vishu and Ashu?

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

Directions

Direction: Read the given information carefully and answer the questions asked below.

A certain number of persons sit in a linear row facing towards North. Five persons are sitting between Neha and Ritu. Riya sits fourth to the right of Ritu and third to the left of Megha. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya. Neha sits fourth from one of the extreme ends. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya. Nitu sits seventh to the left of Priya. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu. Total number of persons are sitting between Neha and Riya is more than four.

Q75. How many persons sit to the left of Nitu?

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

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Q76. Who sits extreme right end of the row?

(a) Megha
(b) Riya
(c) Ritu
(d) Neha
(e) Priya

Q77. How many persons are sitting between Neha and Riya?

(a) Six
(b) Seven
(c) Eight
(d) Nine
(e) Ten

Q78. Who sits fourth to the left of Riya?

(a) Ritu
(b) Neha
(c) Megha
(d) Priya
(e) Riya

Q79. How many persons are sitting in a row?

(a) 15
(b) 16
(c) 17
(d) 10
(e) 12

Directions

Direction: Study the following information to answer the given questions:

Eight persons A, B, C, D, E, F, G and H are sitting in a horizontal row. Four of them face north while rest face south. Not more than two adjacent persons face in the same direction. A sits second to the left of D. F sits to the immediate left of H. D and F are adjacent to each other. C is not adjacent to A but faces south. The number of persons to the left of A is one more than the number of persons to the right of him. B sits second to the left of G and both face in the same direction. C does not sit at extreme end. The person at extreme end face in the same direction.

Q80. Who sits immediate right of C?

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

Q81. Four are the same in a certain way thus forms a group. Which among the following does not belong to the group?

(a) B
(b) H
(c) D
(d) G
(e) A

Q82. How many persons sit to the right of E?

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

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(e) Six

Q83. Who sits second to the right of G?

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

Q84. Who sits immediate left of G?

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

Directions

Direction: Read the following information carefully and answer the questions that follow:

There are seven persons – P, Q, R, S, T, U and Vmoved to Delhi on different days of a week starting from Monday to Sunday not necessarily in same order. Each of them used different types of vehicles among Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck(not necessarily in same order).

The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw. Q, who travelled by Bus, moved just before R, who travelled by Aeroplane. V does not travel by Car. P travelled by Truck two days before the one, who travelled by car. P does not travel by Train or Bike. U moved on Sunday. At most two persons moved before P. Q does not move on Thursday. T moved before S, who moved before V.

Q85. Who among the following moved on Monday?

(a) The one, who travelled by Aeroplane
(b) T
(c) V
(d) Q
(e) None of the above

Q86. How many persons moved before the one, who travelled by Bike?

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

Q87. On which day does S move to Delhi?

(a) Saturday
(b) Friday
(c) Tuesday
(d) Sunday
(e) None of the above

Q88. Which of the following pair is correct?

(a) P, Bus
(b) Saturday, R
(c) Bike, T
(d) U, Truck
(e) Tuesday, V

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Q89. How many persons moved after P?

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

Directions

Direction: Read the following information carefully and answer the question given below.

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal are living on five different floors of a building. Ground floor is as 1^(st) floor and top floor is as 5^(th) floor. There are two flats on each floor. Flat-1 and Flat-2 from west to east such that Flat-2 is in east of Flat-1. Flat-1 of second floor is exactly above Flat-1 of first floor and other flats are placed in the same way.

Sahil lives just below the floor in which Vishal lives. More than two floors gap are between Sonam and Manvi. Both Krishna and Manvi live in the same floor. Mahesh lives on 2^(nd) floor. There are two floors gap is between Mahesh and Vishal and both does not live in the same flat number. Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi. Janvi lives in west with respect to Sahil. Both Salvi and Sajida does not live in the same flat number.

Q90. Salvi lives west of whom?

(a) Vishal
(b) Krishna
(c) Aman
(d) Sahil
(e) Sajida

Q91. How many floors are between Vishal and Krishna?

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

Q92. Which of the following combination is true?

(a) Floor 3 - Flat 1 - Aman
(b) Floor 2 - Flat 2 - Mahesh
(c) Floor 1 - Flat 2 - Sajida
(d) Floor 4 - Flat 1 - Salvi
(e) Floor 5 - Flat 2 - Vishal

Q93. Who lives on floor 4?

(a) Salvi - Aman
(b) Mahesh - Sajida
(c) Krishna - Manvi
(d) Janvi - Sahil
(e) Vishal - Sonam

Q94. Find odd one out.

(a) Sajida
(b) Manvi
(c) Krishna
(d) Salvi
(e) Aman

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Q95. Direction: Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

I. All M are N.

II. Some M are P.

Conclusions:

I. Some P are N.

II. No P is a N.

(a) Only Conclusion I follows
(b) Only Conclusion II follows
(c) Both conclusion I and II follows
(d) None of the conclusion follows
(e) Answer not known

Q96. In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

Statements:

Only a few Red are Blue.

Only a few Blue is Pink.

All Pink is Yellow.

Conclusions:

I. All Yellow being Blue is a possibility.

II. Some Pink is Red.

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

Q97. Direction: In the question below are given two statements followed by two conclusions numbered I, and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Statement:

Only a few Sea are River

All River are Water bodies

Conclusion :

I. Some Sea are Water bodies

II. All sea are River

(a) Both I and II follows
(b) Neither I and II follows
(c) Either I or II follows
(d) Only I follow
(e) Only II follows

Q98. Direction: In the following question assuming the given statements to be true, find which of the conclusion among given some conclusion is/are definitely true and then give your answers accordingly:

Statement:

$C < R < I \leq T \leq S = Y > P \geq A < L < D < F \geq G \geq H$

Conclusions:

I. Y > C

II. Y > D

III. I < A

(a) Only Conclusion I is True
(b) Only Conclusion II is True
(c) Only Conclusion III is True
(d) Both Conclusion I and II is True
(e) Both Conclusion I and IIi is True

Q99. Which of the following symbols should be placed in the blank spaces respectively (in the same order from left to right) in order to complete the given expression in such a manner that “S < X” and “N ≥ P” definitely hold True?

X _ N _ O ≥ S _ P

(a) , =, >
(b) =, ≥, =
(c) , ≥, =
(d) , >, ≥
(e) None of these

Q100. Which of the following symbols should replace '?' in the given expression in order to make expression P > Q definitely true?

R = N > Q ? T < V = O ? P ≥ S ≤ U

(a) <, <
(b) >, <
(c) <, ≥
(d) >, ≥
(e) ≥, ≥

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) The steel industry is a heavy user of carbon and accounts for 5% of the global carbon emissions. Thus raisi...

The given passage starts out with the point that most steel industries are facing difficulties as in current times not only due to low demand but also from direct competition from China. It goes on to explain how this has resulted in closure of factories and reduction in the number of workers. It is also mentioned how the industry is a heavy carbon user. Thus any rise in carbon prices would directly affect the industry by affecting its profit margins. Thus option 2 is the correct inference.

Q2. Answer: (a) Currently, carbon taxes are applicable on the firms that produce steel inside the European bloc's territory...

According to the passage, 'Under the EU's reforms, steelmakers in Europe would pay up to €30 ($32) to emit a tonne of carbon, but foreign producers selling in the EU would not have to pay a cent.' This translates to lowering profit margins for firms producing within the bloc's territory. It is more profitable for the firms to produce outside the territory and sell back the same. Thus it can be inferred that it is because of this price disparity that carbon taxes cause firms to move production outside the bloc. Hence option 1 is the correct answer.

Q3. Answer: (a) Carbon particles are omnipresent in all things and hence it is difficult to calculate their quantity for pu...

'Embodied' as mentioned in the sentence means include or contain (something) as a constituent part. Thus it is evident that they form an intrinsic part of all things made of steel and even that which goes into producing it. Thus it would be difficult to calculate the related particular amount that should be taxed and this causes rise in discrepancies. Thus option 1 is the best inference that can be drawn from the statement.

Q4. Answer: (e) Sceptical

According to the passage, the author has no love for the 'protectionists' as according to the author they can and will pervert the carbon charges into their own form of protectionism for the defaulters. Hence option 5 which means 'to have doubts and not be easily convinced' is the correct answer.

Q5. Answer: (e) Subvert

'Undermining' in the given context means 'lessen the effectiveness, power, or ability of, especially gradually or insidiously.'

'Sabotage' means deliberately destroy, damage, or obstruct (something), especially for political or military advantage.

'Erode' means to gradually destroy or be gradually destroyed.

'Undercut' means cut or wear away the part below or under (something, especially a cliff).

'Hurt' means to cause pain or injury.

'Subvert' means undermine the power and authority of (an established system or institution).

Thus from the meanings of the given options it is evident that option 5 is the best fit synonym in the given context.

Q6. Answer: (d) Civilized

'Vicious' in the given context refers to being deliberately cruel or violent. Thus options 1 and 3 are synonyms of the given word. Option 2 means not severe or harsh. Option 4 means polite and good mannered. Option 5 means to be desired or approved of. Thus in the given context option 4 is the correct antonym for the given word.

Q7. Answer: (b) Donald Trump

From the following statement in the passage - 'Donald Trump's presidency has already rattled free-traders' nerves', it is evident that option 2 is the correct answer.

Q8. Answer: (e) deal with training youth for new kinds of jobs that would be created

The correct answer is "deal with training youth for new kinds of jobs that would be created."

Key Points

• 'Cyber physical systems' is an uncountable noun and that is why we use the singular form of the verb 'deal'.

• With this, we can eliminate options 1 and 4.

• Let us look at option 2-

• Deal with training youth for new kinds of jobs that would be create- here the last word should be 'created'. 'Create' is the first form of verb which means- to cause something new to happen or exist.

• Let us look at option 3-

• Deal with train youth for new kinds of jobs that would be created- Here, the word 'train' makes the option incorrect.

• Let us look at option 5-

• Deal with training youth for new kinds of jobs that would be created- This option has all the correct forms of verbs, correct prepositions, correct pronouns. This option is the most appropriate option.

• Thus, the correct sentence is- "Cyber physical systems deal with training youth for new kinds of jobs that would be created due to the destruction of conventional jobs and the mechanization of jobs."

Q9. Answer: (b) which is neither chemical-loaded nor organic with its reliance on manure.

The correct answer is "which is neither chemical-loaded nor organic with its reliance on manure."

Key Points

• Let us look at option 1-

• Which is neither chemical-loaded or organic with its reliance on manure- Here this option becomes wrong because in this sentence we have 'neither'' which will go along 'nor'. But instead of using 'nor' the sentence has 'or' which makes the sentence grammatically incorrect.

• Let us look at option 2-

• Which is neither chemical-loaded nor organic with its reliance on manure- Here, in this sentence, 'Neither' is going along with 'nor' which is correct. The pronoun 'which' is correct too. Also, the determiner 'its' is used correctly. This is the most appropriate option.

• Let us look at option 3-

• Which is either chemical-loaded nor organic with its reliance on manure- We cannot use 'either' with 'nor'. Making this option incorrect. 'Either' goes along with 'or'. But for this sentence using either will also get incorrect. 'Either' is used in a sentence in the affirmative sense when referring to a choice between two possibilities

• Example-

• We can either eat now or after the show - it's up to you.

• Let us look at option 4-

• Who is neither chemical-loaded nor organic with its reliance on manure- Here the usage of the pronoun 'who' is incorrect. 'Who' is used for a person. The incorrect usage of the pronoun 'who' makes this option incorrect.

• Let us look at option 5-

• Which is neither chemical-loaded nor organic with it's reliance on manure- The usage of determiner 'it's' is wrong. It's is a contraction of "it is" or "it has." 'Its' is a possessive determiner we use to say that something belongs to or refers to something. Thus, the usage of 'its' is correct instead of 'it's'.

• Hence, option 2 is the most appropriate answer.

Q10. Answer: (c) A - F, B - D

The correct answer is A - F, B - D.

Key Points

• There are two combinations form the given phrases that make meaningful sentences.

• Parts A and F connect grammatically and contextually. Part A states 'There is always a back-to-school atmosphere at Westminster in the autumn, but it will be intensified this' which is connected with Part F i.e. 'year by the resumption of parliamentary business unmuffled by Covid restrictions'.

• While Part A mentions 'intensification of the back-to-school atmosphere', Part F talks about the 'resumption' of parliamentary business unmuffled by any Covid restrictions. The resumption of activities along with the removal of restrictions intensifies the 'back-to-school' atmosphere. Thus, A-F is the correct combination.

• Parts B and D connect grammatically and contextually. Part B states 'Students facing a financial shortfall have increasingly turned to cryptocurrency' which can be connected with Part D i.e. 'investment to fund life at university, a survey has suggested'.

• Part B talks about students turning to cryptocurrency due to 'financial shortfall'. Part D mentions funding 'life at university'. Hence, we can infer that the students have resorted to cryptocurrency to make financial provisions for their studies at the university. Thus, B-D is the correct combination.

• Parts C and D seem to connect contextually but not grammatically. The use of verb form 'improving' (continuous tense) will be inappropriate when the two parts C-D are combined.

The correct sentences will be:

• There is always a back-to-school atmosphere at Westminster in the autumn, but it will be intensified this year by the resumption of parliamentary business unmuffled by Covid restrictions.

• Students facing a financial shortfall have increasingly turned to cryptocurrency investment to fund life at university, a survey has suggested.

Additional Information

Word	Meaning
Unmuffled	free from something that muffles or suppresses
Turn to	to use/seek out as a source of aid, relief or advantage

Q11. Answer: (c) A-E, B-F, C-D

The correct answer is A-E, B-F, C-D.

Key Points

• There are three combinations from the given phrases that make meaningful sentences.

• Parts A and E connect grammatically and contextually. Part A states 'A new analysis suggests the current level of UK spending to' which is connected with Part E i.e. 'combat climate change is lagging behind what advisers say is needed'.

• The preposition ‘to’ at the end of Part A indicates that the next part should indicate the purpose of UK spending. Part E reveals that UK spending is intended to combat climate change. Besides, it mentions the spending is lagging. Thus, A-E is the correct combination.

• Parts B and F connect grammatically and contextually. Part B states ‘A project that seeks to develop new kelp strains for the seaweed aquaculture sector’ which is connected with Part F i.e. ‘has been awarded funding from World Wildlife Fund (WWF), with support from the Bezos Earth Fund’.

• Part B mentions the project to develop new kelp strains. Considering Part F, it is clear that funding has been awarded from WWF and Bezos Earth Fund. It is plausible that the project, mentioned in part B, has been awarded this funding. When the two parts are combined, they form a coherent sentence. Thus, B-F is the correct combination.

• Parts C and D connect grammatically and contextually. Part C states ‘As the automotive industry starts to transform, experts say now is the time to plan’ which is connected with Part D i.e. ‘for what happens to batteries at the end of their lives, to reduce reliance on mining and keep materials in circulation’.

• Part C mentions the automobile industry ‘transformation’. Part D says that suggestion by experts regarding the fate of batteries at the end of their lives. The automobile industry involves the usage of the batteries. Hence, on connecting the two parts, the statement becomes complete. Thus, C-D is the correct combination.

The correct sentences will be:

• A new analysis suggests the current level of UK spending to combat climate change is lagging behind what advisers say is needed.

• A project that seeks to develop new kelp strains for the seaweed aquaculture sector has been awarded funding from World Wildlife Fund (WWF), with support from the Bezos Earth Fund.

• As the automotive industry starts to transform, experts say now is the time to plan for what happens to batteries at the end of their lives, to reduce reliance on mining and keep materials in circulation.

Q12. Answer: (c) A and C

The correct answer is A and C.

Key Points

Out of the given sentences, the errors are in sentences A and C.

The corrected form of the sentences are:

Sentence	Grammatical mistake	Corrected sentence
A.	For sentence A to be grammatically correct, the word, ‘more’ must be removed from the sentence. Two adjectives in the comparative degree cannot be placed one after another.	Venus is nearer to Earth than Jupiter and so, appears brighter in the night sky; however, this alone does not account for its larger-than-life appearance.
C.	For sentence C to be grammatically correct, succession should be replaced by successions. In sentence A the words,’…one of the most…’, tells us that the succession being spoken of is one of many such successions.	In one of the most widely scrutinized CEO successions ever, Microsoft directors selected insider Satya Nadella to run the company.

Sentence B is grammatically and contextually correct. Here the use of the preposition 'with' is correct.

• The preposition ‘With means’ 'in the same place as someone or something or 'accompanying'.

• Use of the article ‘The’ in sentence B is correct as the definite article ‘The’ is used with certain adjectives indicating nationality. For e.g. the British, the Dutch, the Spanish etc.

Additional Information

Word	Meaning
Pessimistic	Tending to see the worst aspect of things or believe that the worst will happen.
Vulnerability	The quality or state of being exposed to the possibility of being attacked or harmed, either physically or emotionally

Q13. Answer: (e) B and C

The correct answer is B and C.

Key Points

Out of the given sentences, the errors are in sentences B and C.

The corrected form of the sentences are:

Sentence	Grammatical mistake	Corrected sentence
B.	For sentence B to be grammatically correct the verb following 'goods and chattels' must be in the plural form i.e.'were with the regimental baggage'.	Meanwhile, the gallant Jos had agreed to escort her sister and the major's wife, the bulk whose goods and chattels, including the famous bird of paradise and the turban were with the regimental baggage.
C.	For sentence C to be grammatically correct had been rectified should be used instead of was rectified. Simple past is used when the definite time of action is indicated. When no definite time is given perfect tense is used.	The manager wanted to know whether the problem had been rectified.

In sentence A use of will have been working is grammatically correct.

• The future perfect continuous tense is used for actions that will be in progress over a period of time that will end in the future.

• The future perfect continuous consists of will + have + been + the verb's present participle (verb root + -ing).

• For e.g. At five o'clock, I will have been waiting for thirty minutes.

Additional Information

Word	Meaning
Gallant	(of a person or their behaviour) brave; heroic.
Rectify	put right; correct.
Chattel	a personal possession.

Q14. Answer: (a) Only A

The correct answer is 'Only A'.

Key Points

• We use 'both' to refer to two things or people together.

• We use 'both … and' to emphasise the link between two things.

• Examples,

• Both Britain and France agree on the treaty.

• She played both hockey and basketball when she was a student.

• From the given explanation, we can understand that sentence A is wrong.

• Therefore, option 1 is the correct answer.

Correct Sentence: (A) The council is encouraging the development of the property for both employment and recreation.

Important Points

• The preposition 'between' which is used to indicate a connection or relationship involving two or more parties, is used with the conjunction 'and'.

• For example, The Ministry plans to construct between 50 and 60 cyclone shelters.

• The preposition 'from', which is used to indicate the point in time at which a particular process, event, or activity starts, is followed by 'to'.

• For example, The show will run from 10 a.m. to 2 p.m.

Q15. Answer: (b) Only B

The correct answer is 'Only B'.

Key Points

• Sentence B is wrong as there is the wrong usage of the Subject-Verb agreement.

• The subject-verb agreement simply means that the subject and verb in a sentence must agree in number. If the subject is singular, then the verb must be in singular form and the subject is plural then the verb must be in plural form.

• Examples,

• The light in the lamppost flickers each night.

• The lights in the lampposts flicker each night.

• In sentence B, the subject 'he' is singular. So, it should be followed by the singular verb 'extols'.

• Therefore, option 2 is the correct answer.

Correct Sentence: (B) He often extols the virtues of his students.

Q16. Answer: (c) Only C

The correct answer is 'Only C'.

Key Points

• 'to' is usually followed by the infinitive (the base form of a verb).

• Examples,

• The Ministry plans to construct more universities.

• I managed to reach the top of the hill.

• This law empowers the government to charge higher taxes.

• From the given rule and examples, we can understand that sentence 3 is wrong.

• Therefore, option 3 is the correct answer.

Correct Sentence: (C) It's important to distinguish between business and pleasure.

Q17. Answer: (e) CAEDB

The correct answer is CAEDB.

Key Points

• C is the only opening segment that can lead to the formation of a meaningful and grammatically correct sentence. Hence, it will be the first part after rearrangement.

• Part A follows C being a complementary pair.

• Part E tells about the cause for which others are indifferent. Hence E follows A.

• Part D follows part E to maintain the logical flow of the sentence. So D follows E.

• Part B ends the sentence with a positive connotation where the sentence implies that even if others are unconcerned towards the humanitarian cause you should step forward in its development or progress towards it.

Correct rearrangement of segments is: Even if others remain indifferent to the humanitarian cause you should stride forward.

Important Points

• While solving jumbles one must look for any independent segments/sentences or the option that establishes the subject matter.

• Then one must look for the connection between sentences and segments.

• Some sentences/segments will have some concluding notion so those options will always be at the end.

Q18. Answer: (b) CADBE

The correct answer is CADBE.

Key Points

• C is the part that establishes the subject of the matter that is robotics. Hence, it will be the first part after rearrangement.

• Part A follows C as only part A forms a pair with C further describing robotics.

• Part D follows A as it tells about the field to which the subject that is robotics belongs. Hence D follows A.

• Part B follows part D to maintain the logical flow of the sentence. So B follows D.

• Part E concludes the sentence as it forms a pair with part B and also tells about the function that comes under robotics.

• Correct rearrangement of segments is: Robotics is the field of science and technology concerned with creating robots.

Important Points

• While solving jumbles one must look for any independent segments/sentences or the option that establishes the subject matter.

• Then one must look for the connection between sentences and segments.

• Some sentences/segments will have some concluding notion so those options will always be at the end.

Q19. Answer: (c) EADBC

The correct answer is EADBC.

Key Points

• The opening part of the jumbled sentence will have the maximum information as it introduces the topic. Here E will be the first part after rearrangement as it gives a brief overview of the topic i.e. output from India’s eight core industries.

• Part A follows E as the keyword grew in part E forms the relation between two segments. Hence A follows E.

• Part D and A forms a complementary pair. Hence D follows A.

• Part B follows D as it refers to the time period for the base effects. So B follows D.

• Part C further tells about the time period when the country was in the middle of national lockdown. Thus part C is the concluding

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sentence.

Correct rearrangement of segments is: Output from India's eight core industries grew 16.8% in May 2021, with six sectors reporting significant positive growth due to the base effects from May 2020 when the country was in the middle of a national lockdown.

Complementary pair: It's a pair formed by two segments/sentences in a para jumble where both the segments convey the same idea and are interdependent on each other.

Q20. Answer: (c) Ostentatious, tactics

The correct words to fill the blanks are ostentatious and tactics.

Key Points

Now let us look at the meaning of the correct words:

• Ostentatious: characterized by pretentious or showy display; designed to impress. It is an adjective.

• Tactics: an action or strategy carefully planned to achieve a specific end. It is a noun.

Thus both the words of option 3 aptly fit in the context of the sentence. Here the sentence means that pretentious display of dedication and loyalty are some of the actions/strategies used by the subordinates to get into the good books of their managers.

The phrase 'in someone's good book' means to be in someone's favour, to have their approval; a situation in which someone is treated nicely by somebody.

Thus the sentence is: Ostentatious dedication or loyalty and excessive adoration or appreciation are some of the tactics used by the subordinates to get into the good books of their managers.

Additional Information

Let us look at the meanings of the other options:

Word	Meaning
Aggressive	ready or likely to attack or confront; characterized by or resulting from aggression
Sincere	free from pretence or deceit; proceeding from genuine feelings
Controversial	giving rise or likely to give rise to controversy or public disagreement
Deterrence	the action of discouraging an action or event through instilling doubt or fear of the consequences
Comprehensive	including or dealing with all or nearly all elements or aspects of something
Innovation	the action or process of innovating

Q21. Answer: (a) Fragile, upbringing

The correct words to fill the blanks are fragile and upbringing.

Key Points

Now let us look at the meaning of the correct words:

• Fragile:(of a person) not strong or sturdy; delicate and vulnerable. It is an adjective.

• Upbringing: the treatment and instruction received by a child from its parents throughout its childhood. It is a noun.

Thus both the words of option 1 aptly fit in the context. Here the sentence means that the parents need to adopt a well-balanced approach towards raising their children as they are vulnerable.

Thus the sentence is: Children are fragile and so the parents have to adopt a well-balanced approach towards their upbringing on the psychological, emotional, and physical aspects.

Additional Information

Let us look at the meanings of the other options:

Word	Meaning
Robust	strong and healthy; vigorous
Breeding	the good manners regarded as characteristic of the aristocracy and conferred by heredity
Competitive	having or displaying a strong desire to be more successful than others

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Upgrading	raise (something) to a higher standard, in particular, improve (equipment or machinery) by adding or replacing components.
Aggressive	ready or likely to attack or confront; characterized by or resulting from aggression
Substitution	the action of replacing someone or something with another person or thing
Adamant	refusing to be persuaded or to change one's mind
Abeyance	a state of temporary disuse or suspension

Q22. Answer: (b) Thirst, instill

The correct words to fill the blanks are Thirst and instill.

Key Points

Now let us look at the meaning of the correct words:

• Thirst: have a strong desire for something. It is a verb.

• Instill: gradually but firmly establish (an idea or attitude) in a person's mind. It is a verb.

'Thirst for knowledge' is the desire to learn more and 'thirst for something' is a phrase meaning to have an intense desire, yearning, or need for something.

Thus both the words of option 2 aptly fit in the context, Here the sentence means that a good teacher has the desire to learn more and he/she tries to establish this attitude in the minds of his/her students.

Thus the sentence is: A good teacher always has a thirst for knowledge and tries to instill the same in his/her students.

Additional Information

Let us look at the meanings of the other options:

Word	Meaning
Delight	great pleasure
Deplore	feel or express strong disapproval of (something)
Aversion	a strong dislike or disinclination
Fabricate	invent (something) in order to deceive
Abjure	solemnly renounce (a belief, cause, or claim)
Clarity	the quality of being coherent and intelligible
Reform	make changes in (something, especially an institution or practice) in order to improve it

Q23. Answer: (c) fondness, aversion

The correct answer is 'fondness, aversion.'

Key Points

• The given sentence is talking about something related to the reason for the mother-in-law's anger towards her daughter-in-law.

• Let us explore the words in the given options:

• 'Fondness' means a liking for somebody or something.

• 'Aversion' means a strong feeling of not liking somebody or something.

Conclusion: Mother-in-law shouting in an angry way at her daughter-in-law for her eating and working habits.

Hence, the correct answer is option 3.

Complete Sentence: The mother-in-law ranted at her daughter-in-law about her fondness for eating and aversion to work.

Additional Information

• The meaning of other options:

• 'Vibrant' means full of energy and life.

• 'Able' means having considerable skill, proficiency, or intelligence.

• 'Charge' means the price that you must pay for goods or services.

• 'Outlay' means money that is spent, especially in order to start a business or project.

• 'Rare' means not done, seen, happening, etc. very often.

• 'Unusual' means not expected or normal.
• 'Exceptional' means very unusual; unusually good.
• 'Vivid' means strong and very bright.

Q24. Answer: (e) scarce, rocketed

The correct answer is 'scarce, rocketed.'

Key Points

• The given sentence is talking about something related to the prices of fresh food.
• Let us explore the words in the given options:
• 'Scarce' means not existing in large quantities; hard to find.
• 'Rocketed' means to increase or rise very quickly.

Conclusion: Increase in the prices of fresh food due to its deficiency.

Hence, the correct answer is option 5.

Complete Sentence: Fresh food is so scarce that prices have rocketed.

Additional Information

• The meaning of other options:
• 'Crawled' means to move very slowly.
• 'Abundant' means existing in very large quantities; more than enough.
• 'Poked' means to move or to push something quickly into something or in a certain direction.
• 'Generous' means larger than usual.
• 'Darted' means to move or make something move suddenly and quickly in a certain direction.
• 'Tolerable' means quite good, but not of the best quality.
• 'Surged' means increase suddenly and powerfully.
• 'Lavish' means giving or spending a large amount of money.

Q25. Answer: (a) cognizant, escape

The correct answer is 'cognizant, escape.'

Key Points

• The given sentence is talking about some individuals who will try to hurt during some attempts.
• Let us explore the words in the given options:
• 'Cognizant' means having knowledge or awareness.
• 'Escape' means to manage to get away from a place where you do not want to be; to get free.

Conclusion: A police officer must be aware of the fact that some individuals will try to hurt the officer during their attempt to get away from the prison.

Hence, the correct answer is option 1.

Complete Sentence: As a police officer, you must be cognizant of the fact some individuals will try to hurt you during their escape attempts.

Additional Information

• The meaning of other options:
• 'Abide' means accept or act in accordance with a rule, decision, or recommendation.
• 'Insensible' means too small or gradual to be perceived; inappreciable.
• 'Rescue' means to save someone from a dangerous or difficult situation.
• 'Oblivious' means not being aware of or concerned about what is happening around one.
• 'Elude' means to escape from or avoid danger, enemy, or pursuer, typically in a skillful or cunning way.
• 'Vigilant' means keeping careful watch for possible danger or difficulties.
• 'Evade' means to escape or avoid someone or something, especially by guile or trickery.
• 'Wary' means feeling or showing caution about possible dangers or problems.

Q26. Answer: (d) Q

The correct answer is ‘Q’.

Key Points

• As we read all the sentences, it becomes evident that the paragraph is about the latest excavation that lead to the unearthing of the fossil(tooth) of an extinct species of hippo.

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• The second sentence says that the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

• We can infer that the first sentence should introduce the topic by mentioning the details about the discovery of the fossil. As sentence Q talks about the excavations led by Neil Adams and also mentions the hippo tooth, it is the correct introduction that coherently connects with the second sentence. So, sentence Q is the first sentence.

• Following the second sentence that ends with the mention of the habitat of the extinct species of hippo, we can conclude that sentence S is the third sentence. This sentence compares the extinct species of hippo with the modern African hippo. The pronoun 'it' in sentence S indicates that it is talking about the hippo mentioned in the previous sentence.

• The third sentence gives information about the extinct species of hippo and its habitat. This may be followed by information regarding the tooth discovered or the revelations by research/study on the fossil that was unearthed. As sentence P talks about the age of the fossil and its implication on the British fossil record, it is most appropriate in the context. Thus, it is the fourth sentence.

• The fifth sentence, which is fixed, mentions that scientists lack knowledge during the period of 1.8 to 0.8 million years ago. It is plausible that the sixth sentence has some relevance in this context. As sentence T says that the new research fills in the gap(mentioned in the fifth sentence) and throws light on the climate that helped the hippo migration, it is the sixth sentence. It highlights the important implication of the new research in furnishing information in the interval of 1.8 to 0.8 million years ago.

• Sentence R mentions the opinion of the co-author of the study, which emphasizes that the hippos reveal information about the past climates. We can infer that this refers to the warm and wet periods in the interval that helped the hippos to migrate from the Mediterranean to southern England(the sixth sentence). Thus, sentence R is coherent in the context and is the seventh (last) sentence.

• The correct sequence of the sentences is Q-2-S-P-5-T-R.

Thus, the first sentence is Q.

Q27. Answer: (b) P

The correct answer is 'P'.

Key Points

• As we read all the sentences, it becomes evident that the paragraph is about the latest excavation that lead to the unearthing of the fossil(tooth) of an extinct species of hippo.

• The second sentence says that the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

• We can infer that the first sentence should introduce the topic by mentioning the details about the discovery of the fossil. As sentence Q talks about the excavations led by Neil Adams and also mentions the hippo tooth, it is the correct introduction that coherently connects with the second sentence. So, sentence Q is the first sentence.

• Following the second sentence that ends with the mention of the habitat of the extinct species of hippo, we can conclude that sentence S is the third sentence. This sentence compares the extinct species of hippo with the modern African hippo. The pronoun 'it' in sentence S indicates that it is talking about the hippo mentioned in the previous sentence.

• The third sentence gives information about the extinct species of hippo and its habitat. This may be followed by information regarding the tooth discovered or the revelations by research/study on the fossil that was unearthed. As sentence P talks about the age of the fossil and its implication on the British fossil record, it is most appropriate in the context. Thus, it is the fourth sentence.

• The fifth sentence, which is fixed, mentions that scientists lack knowledge during the period of 1.8 to 0.8 million years ago. It is plausible that the sixth sentence has some relevance in this context. As sentence T says that the new research fills in the gap(mentioned in the fifth sentence) and throws light on the climate that helped the hippo migration, it is the sixth sentence. It highlights the important implication of the new research in furnishing information in the interval of 1.8 to 0.8 million years ago.

• Sentence R mentions the opinion of the co-author of the study, which emphasizes that the hippos reveal information about the past climates. We can infer that this refers to the warm and wet periods in the interval that helped the hippos to migrate from the Mediterranean to southern England(the sixth sentence). Thus, sentence R is coherent in the context and is the seventh (last) sentence.

• The correct sequence of the sentences is Q-2-S-P-5-T-R.

Thus, the fourth sentence is P.

Q28. Answer: (e) T

The correct answer is 'T'.

Key Points

• As we read all the sentences, it becomes evident that the paragraph is about the latest excavation that lead to the unearthing of the fossil(tooth) of an extinct species of hippo.

• The second sentence says that the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

• We can infer that the first sentence should introduce the topic by mentioning the details about the discovery of the fossil. As sentence Q talks about the excavations led by Neil Adams and also mentions the hippo tooth, it is the correct introduction that coherently connects with the second sentence. So, sentence Q is the first sentence.

• Following the second sentence that ends with the mention of the habitat of the extinct species of hippo, we can conclude that sentence S is the third sentence. This sentence compares the extinct species of hippo with the modern African hippo. The pronoun 'it' in sentence S indicates that it is talking about the hippo mentioned in the previous sentence.

• The third sentence gives information about the extinct species of hippo and its habitat. This may be followed by information regarding the tooth discovered or the revelations by research/study on the fossil that was unearthed. As sentence P talks about the age of the fossil and its implication on the British fossil record, it is most appropriate in the context. Thus, it is the fourth sentence.

• The fifth sentence, which is fixed, mentions that scientists lack knowledge during the period of 1.8 to 0.8 million years ago. It is plausible that the sixth sentence has some relevance in this context. As sentence T says that the new research fills in the gap(mentioned in the fifth sentence) and throws light on the climate that helped the hippo migration, it is the sixth sentence. It highlights the important implication of the new research in furnishing information in the interval of 1.8 to 0.8 million years ago.

• Sentence R mentions the opinion of the co-author of the study, which emphasizes that the hippos reveal information about the past climates. We can infer that this refers to the warm and wet periods in the interval that helped the hippos to migrate from the Mediterranean to southern England(the sixth sentence). Thus, sentence R is coherent in the context and is the seventh (last) sentence.

• The correct sequence of the sentences is Q-2-S-P-5-T-R.

Thus, the sixth sentence is T.

Q29. Answer: (c) S

The correct answer is 'S'.

Key Points

• As we read all the sentences, it becomes evident that the paragraph is about the latest excavation that lead to the unearthing of the fossil(tooth) of an extinct species of hippo.

• The second sentence says that the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

• We can infer that the first sentence should introduce the topic by mentioning the details about the discovery of the fossil. As sentence Q talks about the excavations led by Neil Adams and also mentions the hippo tooth, it is the correct introduction that coherently connects with the second sentence. So, sentence Q is the first sentence.

• Following the second sentence that ends with the mention of the habitat of the extinct species of hippo, we can conclude that sentence S is the third sentence. This sentence compares the extinct species of hippo with the modern African hippo. The pronoun 'it' in sentence S indicates that it is talking about the hippo mentioned in the previous sentence.

• The third sentence gives information about the extinct species of hippo and its habitat. This may be followed by information regarding the tooth discovered or the revelations by research/study on the fossil that was unearthed. As sentence P talks about the age of the fossil and its implication on the British fossil record, it is most appropriate in the context. Thus, it is the fourth sentence.

• The fifth sentence, which is fixed, mentions that scientists lack knowledge during the period of 1.8 to 0.8 million years ago. It is plausible that the sixth sentence has some relevance in this context. As sentence T says that the new research fills in the gap(mentioned in the fifth sentence) and throws light on the climate that helped the hippo migration, it is the sixth sentence. It highlights the important implication of the new research in furnishing information in the interval of 1.8 to 0.8 million years ago.

• Sentence R mentions the opinion of the co-author of the study, which emphasizes that the hippos reveal information about the past climates. We can infer that this refers to the warm and wet periods in the interval that helped the hippos to migrate from the Mediterranean to southern England(the sixth sentence). Thus, sentence R is coherent in the context and is the seventh (last) sentence.

• The correct sequence of the sentences is Q-2-S-P-5-T-R.

Thus, the third sentence is S.

Q30. Answer: (a) R

The correct answer is 'R'.

Key Points

• As we read all the sentences, it becomes evident that the paragraph is about the latest excavation that lead to the unearthing of the fossil(tooth) of an extinct species of hippo.

• The second sentence says that the tooth is identified as belonging to an extinct species of hippo called Hippopotamus antiquus, which ranged across Europe in warm periods during the Ice Age.

• We can infer that the first sentence should introduce the topic by mentioning the details about the discovery of the fossil. As sentence Q talks about the excavations led by Neil Adams and also mentions the hippo tooth, it is the correct introduction that

coherently connects with the second sentence. So, sentence Q is the first sentence.

• Following the second sentence that ends with the mention of the habitat of the extinct species of hippo, we can conclude that sentence S is the third sentence. This sentence compares the extinct species of hippo with the modern African hippo. The pronoun 'it' in sentence S indicates that it is talking about the hippo mentioned in the previous sentence.

• The third sentence gives information about the extinct species of hippo and its habitat. This may be followed by information regarding the tooth discovered or the revelations by research/study on the fossil that was unearthed. As sentence P talks about the age of the fossil and its implication on the British fossil record, it is most appropriate in the context. Thus, it is the fourth sentence.

• The fifth sentence, which is fixed, mentions that scientists lack knowledge during the period of 1.8 to 0.8 million years ago. It is plausible that the sixth sentence has some relevance in this context. As sentence T says that the new research fills in the gap(mentioned in the fifth sentence) and throws light on the climate that helped the hippo migration, it is the sixth sentence. It highlights the important implication of the new research in furnishing information in the interval of 1.8 to 0.8 million years ago.

• Sentence R mentions the opinion of the co-author of the study, which emphasizes that the hippos reveal information about the past climates. We can infer that this refers to the warm and wet periods in the interval that helped the hippos to migrate from the Mediterranean to southern England(the sixth sentence). Thus, sentence R is coherent in the context and is the seventh (last) sentence.

• The correct sequence of the sentences is Q-2-S-P-5-T-R.

Thus, the last(seventh) sentence is R.

Q31. Answer: (c) x ≥ y

I. $12x^2 – 7x + 1 = 0$

$\Rightarrow 12x^2 – 3x – 4x + 1 = 0$

$\Rightarrow 3x(4x – 1) – 1(4x – 1) = 0$

$\Rightarrow (4x – 1)(3x – 1) = 0$

$\Rightarrow x = 1/4, 1/3$

II. $20y^2 – 9y + 1 = 0$

$\Rightarrow 20y^2 – 5y – 4y + 1 = 0$

$\Rightarrow 5y(4y – 1) – 1(4y – 1) = 0$

$\Rightarrow (4y – 1)(5y – 1) = 0$

$\Rightarrow y = 1/4, 1/5$

When $x = 1/4, y = 1/4$, then $x = y$

When $x = 1/4, y = 1/5$, then $x > y$

When $x = 1/3, y = 1/4$, then $x > y$

When $x = 1/3, y = 1/5$, then $x > y$

Therefore x and y are related as $x \geq y$

Q32. Answer: (b) x < y

I. $12x^2 + 5x – 3 = 0$

$\Rightarrow 12x^2 + 9x – 4x – 3 = 0$

$\Rightarrow 3x(4x + 3) – 1(4x + 3) = 0$

$\Rightarrow (4x + 3)(3x – 1) = 0$

$\Rightarrow x = -3/4, 1/3$

II. $12y^2 – 17y + 6 = 0$

$\Rightarrow 12y^2 – 8y – 9y + 6 = 0$

$\Rightarrow 4y(3y – 2) – 3(3y – 2) = 0$

$\Rightarrow (3y – 2)(4y – 3) = 0$

$\Rightarrow y = 2/3, 3/4$

When $x = -3/4, y = 2/3$, then $x < y$

When $x = -3/4, y = 3/4$, then $x < y$

When $x = 1/3, y = 2/3$, then $x < y$

When $x = 1/3, y = 3/4$, then $x < y$

Therefore x and y are related as $x < y$

Q33. Answer: (b) x < y

I. $x^2 + 17x + 52 = 0$

=> $(x + 4)(x + 13) = 0$

=> $x = -4, -13$

Thus, $x = -4$ or -13

II. $6y^2 + y – 40 = 0$

=> $(3y + 8)(2y - 5) = 0$

=> $y = -8/3, 5/2$

Thus, $y = -8/3$ or $5/2$

So, when $x = -4$, for $y = -8/3$, then $x < y$ and when $x = -4$, for $y = 5/2$, then $x < y$

And when $x = -13$, for $y = -8/3$, then $x < y$ and when $x = -13$, for $y = 5/2$, then $x < y$

Therefore We can observe that $x < y$

Q34. Answer: (e) if x = y or no relation can be established

$2x^2 + 11x + 12 = 0$

$(2x^2 + 8x) + (3x + 12) = 0$

$(2x + 3)(x + 4) = 0$

Solving we get, $x = -4, -3/2$

$5y^2 + 27y + 10 = 0$

$(5y^2 + 25y) + (2y + 10) = 0$

$(5y + 2)(y + 5) = 0$

Solving we get, $y = -2/5, -5$

So x can be greater than or less than y

So 5 is the correct option

Q35. Answer: (e) x = y or no relation can be obtained

I. $12x^2 - 8\sqrt{5}x + 5 = 0$

=> $12x^2 - 2\sqrt{5}x - 6\sqrt{5}x + 5 = 0$

=> $2x(6x - \sqrt{5}) - \sqrt{5}(6x - \sqrt{5}) = 0$

=> $x = \sqrt{5}/2, x = \sqrt{5}/6$

II. $5y^2 - 9y + 4 = 0$

=> $5y^2 - 5y - 4y + 4 = 0$

=> $5y(y - 1) – 4(y – 1) = 0$

=> $y = 1, 4/5$

Comparison between x and y (via Tabulation):		
Value of x	Value of y	Relation
$\sqrt{5}/2$	1	x > y
$\sqrt{5}/2$	4/5	x > y
$\sqrt{5}/6$	1	x < y
$\sqrt{5}/6$	4/5	x < y

Therefore x = y or no relation can be obtained

Q36. Answer: (c) 4

$255.89 + (15.98)3 \div 16.09 = 2? \times 64 \div 2$

=> $256 + 16^3 \div 16 = 2^? \times 32$

=> $256 + 16^2 = 2? \times 32$

=> $256 + 256 = 2? \times 32$

=> $2 \times 256 = 2? \times 32$

=> $256 = 2? \times 16$

=> $2^? = 256/16$

=> 2^? = 2^4

=> ? = 4

Q37. Answer: (a) 21

Follow BODMAS rule to solve this question, as per the order given below,

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step - 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value,

So, we can write these values to their nearest integers.

Given expression is

? = {21.88 × 5.25 + 581.98 ÷ 1.9 + √575.86 × 4.95 ÷ 2.97}1/2

=> {22 × 5 + 582 ÷ 2 + √576 × 5 ÷ 3}1/2

=> {22 × 5 + 291 + √576 × 5 ÷ 3}1/2

=> {22 × 5 + 291 + 24 × 5 ÷ 3}1/2

=> {22 × 5 + 291 + 40}1/2

=> {110 + 291 + 40}1/2

=> (441) 1/2

=> 21

Q38. Answer: (c) 204

Follow BODMAS rule to solve this question, as per the order given below,

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step - 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value,

So, we can write these values to their nearest integers.

Given expression is

(4.28 × 4.98)% of (29.89 × 63.84) + 449.9 = 629.8 + ?

=> (4 × 5)% of (30 × 64) + 450 = 630 + ?

=> 20% of 1920 + 450 = 630 + ?

=> ? = (20/100) × 1920 + 450 - 630

=> ? = 384 + 450 – 630

=> ? = 204

Q39. Answer: (d) 30

Follow BODMAS rule to solve this question, as per the order given below,

Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,

Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,

Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,

Step - 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.

Since, we need to find out the approximate value,

So, we can write these values to their nearest integers.

Given expression is

(1011.94 ÷ 22.943) + (1127.88 ÷ 2.97) = 209.98 + 6.97 × ?

=> (1012 ÷ 23) + (1128 ÷ 3) = 210 + 7 × ?

=> (44) + (376) = 210 + 7 × ?

=> 420 = 210 + 7 × ?

=> 420 – 210 = 7 × ?

=> 210 = 7 × ?

=> ? = 30

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Q40. Answer: (d) 200

Follow BODMAS rule to solve this question, as per the order given below,
Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,
Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,
Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
Step - 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.
Since, we need to find out the approximate value,
So, we can write these values to their nearest integers.
Given expression is
4499.95 + 499.95 ÷ 24.95 – 919.92 = 17.91 × ?
=> 4500 + 500 ÷ 25 – 920 = 18 × ?
=> 4500 + 20 – 920 = 18 × ?
=> 4520 – 920 = 18 × ?
=> 3600 = 18 × ?
=> ? = 200

Q41. Answer: (e) 400

Follow BODMAS rule to solve this question, as per the order given below,
Step - 1: Parts of an equation enclosed in 'Brackets' must be solved first, and follow BODMAS rule in the bracket,
Step - 2: Any mathematical 'Of' or 'Exponent' must be solved next,
Step - 3: Next, the parts of the equation that contain 'Division' and 'Multiplication' are calculated,
Step - 4: Last but not least, the parts of the equation that contain 'Addition' and 'Subtraction' should be calculated.
Since, we need to find out the approximate value,
So, we can write these values to their nearest integers.
Given expression is
598.01 ÷ 22.93 + √143.94 = √? + 287.88 ÷ 15.89
598 ÷ 23 + √144 = √x + 288 ÷ 16
=> 26 + 12 = √x + 18
=> √x = 26 + 12 - 18
=> √x = 20
=> x = 400

Q42. Answer: (a) 57%

Number of male living in block-C = 2/7 × 14% of 2000 = 80
Total number of people living in block-F = 7% of 2000 = 140
Therefore Required Percentage = 80/140 × 100 = 57%

Q43. Answer: (d) 160

Therefore Required Difference = (27 + 7 - 14 - 12)% of 2000 = 8% of 2000 = 160

Q44. Answer: (b) 768

New number of people in block- E = 140% of 12% of 2000 = 336
New number of people in block- A = 80% of 27% of 2000 = 432
Therefore Required number of peoples = 336 + 432 = 768

Q45. Answer: (b) 360

Therefore Required Average = 1/3 (54% of 2000) = 1080/3 = 360

Q46. Answer: (d) 4 : 5

Therefore Required Ratio = 12% : 15% = 4 : 5

Q47. Answer: (e) 28%

Total number of travelers from Mumbai = 8000
Percentage of male travellers from Mumbai = 100 – 30 – 25 = 45%

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=> Total number of male travellers from Mumbai = 45 / 100 × 8000 = 3600
Total number of travellers from Bangalore = 23700 – 6700 – 8000 = 9000
Percentage female travellers from Bangalore = 100 – 35 – 15 = 50%
=> Total number of female travellers from all three cities = 6700 × 50 / 100 + 8000 × 30 / 100 + 9000 × 50 / 100 = 10250
Total number of children travelers from all three cities = 23700 – 9430 – 10250 = 4020
To find the percentage children from Delhi,
=> ? / 100 × 6700 + 25 / 100 × 8000 + 15 / 100 × 9000 = 4020
=> ? = 10%
Percentage number of male travellers from Delhi = 100 – 50 – 10 = 40%
Total number of male travellers from Delhi = 40 / 100 × 6700 = 2680
Summarising the data

City	Male	Female	Children	Total
Delhi	40% = 2680	50% = 3350	10% = 670	6700
Mumbai	45% = 3600	30% = 2400	25% = 2000	8000
Bangalore	35% = 3150	50% = 4500	15% = 1350	9000
Total	9430	10250	4020	23700

Therefore Required percentage = 2680 / 9430 × 100
= 28.41% ≈ 28%

Q48. Answer: (b) 680

Total number of travelers from Mumbai = 8000
Percentage of male travellers from Mumbai = 100 – 30 – 25 = 45%
=> Total number of male travellers from Mumbai = 45 / 100 × 8000 = 3600
Total number of travellers from Bangalore = 23700 – 6700 – 8000 = 9000
Percentage female travellers from Bangalore = 100 – 35 – 15 = 50%
=> Total number of female travellers from all three cities = 6700 × 50 / 100 + 8000 × 30 / 100 + 9000 × 50 / 100 = 10250
Total number of children travelers from all three cities = 23700 – 9430 – 10250 = 4020
To find the percentage children from Delhi,
=> ? / 100 × 6700 + 25 / 100 × 8000 + 15 / 100 × 9000 = 4020
=> ? = 10%
Percentage number of male travellers from Delhi = 100 – 50 – 5 = 40%
Total number of male travellers from Delhi = 40 / 100 × 6700 = 2680
Summarising the data

City	Male	Female	Children	Total
Delhi	40% = 2680	50% = 3350	10% = 670	6700
Mumbai	45% = 3600	30% = 2400	25% = 2000	8000
Bangalore	35% = 3150	50% = 4500	15% = 1350	9000
Total	9430	10250	4020	23700

Therefore Required difference = 1350 – 670
= 680

Q49. Answer: (b) 7 : 10

Total number of travellers from Bangalore = 23700 – 6700 – 8000 = 9000
Percentage female travellers from Bangalore = 100 – 35 – 15 = 50%
Therefore Required ratio = (35 / 100 × 9000) : (50 / 100 × 9000)
= 7 : 10

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Q50. Answer: (e) 3075

Total number of travellers from Bangalore = 23700 – 6700 – 8000 = 9000

Percentage female travellers from Bangalore = 100 – 35 – 15 = 50%

Total number of female travellers from all three cities = 6700 × 50 / 100 + 8000 × 30 / 100 + 9000 × 50 / 100 = 10250

=> Number of old female travellers = 90 / 100 × 10250 = 9225

Therefore Required average = 9225 / 3 = 3075

Q51. Answer: (c) 57%

Total number of travelers from Mumbai = 8000

Percentage of male travellers from Mumbai = 100 – 30 – 25 = 45%

=> Total number of male travellers from Mumbai = 45 / 100 × 8000 = 3600

Total number of travellers from Bangalore = 23700 – 6700 – 8000 = 9000

Percentage female travellers from Bangalore = 100 – 35 – 15 = 50%

=> Total number of female travellers from all three cities = 6700 × 50 / 100 + 8000 × 30 / 100 + 9000 × 50 / 100 = 10250

Total number of children travelers from all three cities = 23700 – 9430 – 10250 = 4020

To find the percentage children from Delhi,

=> ? / 100 × 6700 + 25 / 100 × 8000 + 15 / 100 × 9000 = 4020

=> ? = 10%

Percentage number of male travellers from Delhi = 100 – 50 – 5 = 40%

Total number of male travellers from Delhi = 40 / 100 × 6700 = 2680

Summarising the data

City	Male	Female	Children	Total
Delhi	40% = 2680	50% = 3350	10% = 670	6700
Mumbai	45% = 3600	30% = 2400	25% = 2000	8000
Bangalore	35% = 3150	50% = 4500	15% = 1350	9000
Total	9430	10250	4020	23700

Therefore Required percentage = (9430 – 4020) / 9430 × 100 = 57.37% ≈ 57%

Q52. Answer: (c) 60

Shortcut Trick

Ratio of number of students in Section A and Section B = 40 : 60 = 2 : 3.

Total average (A+B) = 50. Average of Section A = 35. Deviation for A = 35 − 50 = −15.

Total deviation for A = 2 × (−15) = −30. To balance, total deviation for B must be +30.

Average deviation for B = +30 ÷ 3 = +10. Average of B = 50 + 10 = 60.

Therefore The correct answer is 60.

Alternate Method

Given:

Students in Section A (n1) = 40, Average (A1) = 35

Students in Section B (n2) = 60, Combined Average (A_(total)) = 50

Formula Used:

Combined Average = (n1 × A1 + n2 × A2) ÷ (n1 + n2)

Calculations:

=> Total score of Section A = 40 × 35 = 1400

=> Total number of students = 40 + 60 = 100

=> Total score of A and B together = 100 × 50 = 5000

=> Total score of Section B = 5000 − 1400 = 3600

=> Average of Section B = 3600 ÷ 60 = 60

Therefore The correct answer is 60.

Additional Information

Weighted Average Concept

When two groups are mixed, the resulting average depends on the weights (quantities) of each group: Avg_w = (w1x1 + w2x2) ÷ (w1 + w2).

Rule of Alligation

Ratio of quantities = (Higher value − Mean value) : (Mean value − Lower value). It helps find missing averages or ratios quickly.

Deviation Method

Sum of deviations from the mean is always zero. Total Negative Deviation = Total Positive Deviation.

Q53. Answer: (d) 120

Shortcut Trick

Ratio of Wednesday to Monday = 8 : 5.

Given 8 units = 160 → 1 unit = 20.

Monday sale = 5 × 20 = 100.

Friday sale = 120% of Monday = 1.2 × 100 = 120.

Therefore The correct answer is 120 phones.

Alternate Method

Given: Ratio Mon : Tue : Wed : Thu = 5 : 4 : 8 : 3.

Given: Sale on Wednesday = 160.

=> 8 units = 160

=> 1 unit = 160 ÷ 8 = 20

=> Sale on Monday = 5 units = 5 × 20 = 100

=> Sale on Friday = Sale on Monday + 20% of Sale on Monday

=> Sale on Friday = 100 + (20 ÷ 100) × 100

=> Sale on Friday = 100 + 20 = 120

Therefore The correct answer is 120 phones.

Additional Information

Ratio and Proportion

If a : b is given and the value of 'a' is known, then b = (Value of a ÷ a) × b.

Percentage Increase

To increase a value x by k%, use the formula: New Value = x × (100 + k) ÷ 100.

Unitary Method

Calculate the value of a single unit first, then multiply by the required number of units to find any component of the ratio.

Q54. Answer: (c) Rs. 40,000

Shortcut Trick

Let Ram income be R. Savings = R × (100 − 30)% × (100 − 50)% = 10,500.

=> R × 0.70 × 0.50 = 10,500 => R × 0.35 = 10,500 => R = 30,000.

Ram income is 25% less than Shyam income (S), so R = 0.75 × S.

=> 30,000 = 0.75 × S => S = 30,000 ÷ 0.75 = 40,000.

Therefore The correct answer is Rs. 40,000.

Alternate Method

Given: Ram spends 30% on food, 50% of remaining on household, Savings = Rs. 10,500.

Formula: Savings = Income × (1 − r1) × (1 − r2)

=> Let Ram income = x

=> Remaining after food = x − (30% of x) = 0.70x

=> Savings = 0.70x − (50% of 0.70x) = 0.35x

=> 0.35x = 10,500

=> x = 10,500 ÷ 0.35 = 30,000

=> Shyam income (S) × (1 − 25%) = Ram income

=> S × 0.75 = 30,000

=> S = 30,000 ÷ 0.75 = 40,000

Therefore The correct answer is Rs. 40,000.

Additional Information

Successive Percentage Change

When expenditures are from the remaining balance, use the successive multiplication method: Final = Initial × (1−p1) × (1−p2).

Base Comparison Rule

If A is r% less than B, then A = B × (100−r)/100. To find B from A, use B = A × 100/(100−r).

Q55. Answer: (c) 13

Shortcut Trick

Shailu's present age = 33 − 9 = 24 years.

Rakesh's present age = 24 − 9 = 15 years.

Shanu's present age = 15 + 24 = 39 years (since Shanu is older to maintain ratio 5:X).

Ratio 5:X => 15 : 39 => 5 : 13.

Therefore The correct answer is 13.

Alternate Method

Given: Ratio of Rakesh and Shanu = 5 : X. Shailu = Rakesh + 9. Shailu (after 9 yrs) = 33. Shanu − Rakesh = Shailu.

=> Shailu's present age = 33 − 9 = 24 years.

=> Rakesh's present age = 24 − 9 = 15 years.

=> Shanu's present age − 15 = 24

=> Shanu's present age = 24 + 15 = 39 years.

=> Ratio = Rakesh : Shanu = 15 : 39

=> 5 : X = 15 : 39

=> X = (39 × 5) ÷ 15

=> X = 39 ÷ 3 = 13.

Therefore The correct answer is 13.

Additional Information

Ratio and Proportions in Ages

If the ratio of two ages is a:b, their actual ages can be taken as ak and bk, where k is a constant multiplier.

Age Difference Property

The difference between the ages of two persons remains constant throughout their lives, regardless of the number of years passed.

Q56. Answer: (a) 400, 9/8

Shortcut Trick

For 2 years, Difference (D) = P × $(r/100)^2$

=> 25 = P × $(25/100)^2$ => 25 = P × $(1/4)^2$ => P = 400

Ratio CI/SI for 2 years = (2 + r/100) / 2 = (2 + 1/4) / 2 = (9/4) / 2 = 9/8

Therefore The correct answer is Rs. 400, 9/8.

Alternate Method

Given: Rate (r) = 25%, Difference (D) = Rs. 25, Time (t) = 2 years.

Formula: D = $P(r/100)^2$

=> 25 = P × (25/100) × (25/100)

=> 25 = P × (1/4) × (1/4)

=> P = 25 × 16 = Rs. 400

=> Simple Interest (SI) = (P × r × t) / 100 = (400 × 25 × 2) / 100 = Rs. 200

=> Compound Interest (CI) = SI + Difference = 200 + 25 = Rs. 225

=> Ratio (CI : SI) = 225 / 200 = 9 / 8

Therefore The correct answer is Rs. 400, 9/8.

Additional Information

CI − SI Difference for 3 Years

The difference formula for 3 years is D = $P(r/100)^2$ × (3 + r/100).

Effective Rate Method

Effective CI rate for 2 years is x + y + (xy/100). For 25%, it is 25 + 25 + (625/100) = 56.25%.

Ratio Property

For any rate r, the ratio of CI to SI for 2 years is always 1 + r/200.

Q57. Answer: (c) 40/3 days

Shortcut Trick

Combined efficiency 2 × (A + B + C) = LCM(40, 60, 30) efficiencies sum.

Total Work = 120 units. Efficiency: (A+B)=3, (B+C)=2, (C+A)=4.

2 × (A + B + C) = 3 + 2 + 4 = 9 => (A + B + C) = 4.5 units/day.

Half work = 120 ÷ 2 = 60 units. Time = 60 ÷ 4.5 = 60 ÷ (9/2) = 120/9 = 40/3 days.

Therefore The correct answer is 40/3 days.

Alternate Method

Given: (A + B) takes 40 days, (B + C) takes 60 days, (C + A) takes 30 days.

Formula: Total Work = LCM of individual days; Efficiency = Work ÷ Time.

Person	Days	Total Work	Efficiency
A + B	40	120 units	3
B + C	60	2	
C + A	30	4	

=> Sum of efficiencies = (A + B) + (B + C) + (C + A) = 3 + 2 + 4 = 9 units/day

=> 2 × (A + B + C) = 9 => Efficiency of (A + B + C) = 9/2 = 4.5 units/day

=> Actual Work = 120 units; Half of Actual Work = 120 ÷ 2 = 60 units

=> Time taken by (A + B + C) = 60 ÷ (9/2) = (60 × 2) ÷ 9 = 120/9 days

=> Simplified Time = 40/3 days

Therefore The correct answer is 40/3 days.

Additional Information

Combined Efficiency Rule

When individuals work in pairs, the sum of their pairwise efficiencies is twice the collective efficiency of all individuals: 2(A+B+C) = Σ(Pairwise Efficiencies).

Work and Wages

Wages are always distributed in the ratio of the efficiency of the workers or the ratio of the work done by them.

Time and Efficiency Inverse Relation

Efficiency is inversely proportional to the time taken to complete the work. Efficiency = 1/Time, assuming constant total work.

Q58. Answer: (c) 8 : 11

Shortcut Trick

Mixture 1: Milk = (2/5) × 20 = 8 litres; Water = 20 − 8 = 12 litres.

Mixture 2 (Water : Milk = 5 : 4): Milk = (4/9) × 18 = 8 litres; Water = 18 − 8 = 10 litres.

Resultant Milk = 8 + 8 = 16 litres.

Resultant Water = 12 + 10 = 22 litres.

Ratio = 16 : 22 = 8 : 11.

Therefore The correct answer is 8 : 11.

Alternate Method

Given: Volume 1 = 20 litres (M:W = 2:3), Volume 2 = 18 litres (W:M = 5:4).

Formula Used: Component Quantity = [Ratio Part / Total Ratio] × Total Volume

=> Milk in Mixture A = (2/5) × 20 = 8 litres

=> Water in Mixture A = (3/5) × 20 = 12 litres

=> Milk in Mixture B = (4/9) × 18 = 8 litres (Note: W:M is 5:4, so M:W is 4:5)

=> Water in Mixture B = (5/9) × 18 = 10 litres

=> Total Milk = 8 + 8 = 16 litres

=> Total Water = 12 + 10 = 22 litres

=> Final Ratio = 16 : 22 = 8 : 11

Therefore The correct answer is 8 : 11.

Additional Information

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Rule of Alligation

Used to find the ratio in which two ingredients at given prices/concentrations are mixed to produce a mixture at a given mean price/concentration.

Ratio and Proportion

If a mixture of x litres contains components in ratio a:b, the quantity of component A is [a/(a+b)] × x.

Multiple Mixtures

When combining multiple mixtures, always find the absolute quantities of each component separately and then sum them up to find the final ratio.

Q59. Answer: (a) 25 sec

Shortcut Trick

Relative Speed = 25 − 5 = 20 m/s

Total Distance to be covered = Engine Length + Initial Distance = 100 + 400 = 500 m

Time Taken = Distance ÷ Relative Speed = 500 ÷ 20 = 25 sec

Therefore The correct answer is 25 sec.

Alternate Method

Given:

Speed of Engine (V_T) = 25 m/s

Speed of Man (V_M) = 5 m/s

Length of Engine (L) = 100 m

Initial gap between engine and man (D) = 400 m

Formula Used:

Time = Total Distance ÷ Relative Speed

Calculations:

=> Total distance to cover = L + D = 100 + 400 = 500 m

=> Relative speed (same direction) = V_T − V_M

=> Relative speed = 25 − 5 = 20 m/s

=> Time = 500 ÷ 20

=> Time = 25 sec

Therefore The correct answer is 25 sec.

Additional Information

Relative Speed in Same Direction

When two objects move in the same direction, their relative speed is the difference of their speeds: V_(rel) = V1 − V2.

Relative Speed in Opposite Direction

When two objects move towards each other, their relative speed is the sum of their speeds: V_(rel) = V1 + V2.

Crossing Distance

To completely cross a person or a point object, the train must cover its own length plus any initial gap between them.

Q60. Answer: (a) Rs. 60,000; Rs. 30,000 and Rs. 10,000

Shortcut Trick

Let Ankur investment be 1 unit.

Aman investment = 3 × 1 = 3 units.

Anil investment = 2 × 3 = 6 units.

Ratio of investments (Anil : Aman : Ankur) = 6 : 3 : 1.

Total ratio parts = 6 + 3 + 1 = 10 units => Rs. 1,00,000.

1 unit = Rs. 10,000. Shares: 6 × 10,000; 3 × 10,000; 1 × 10,000.

Therefore The correct answer is Rs. 60,000; Rs. 30,000 and Rs. 10,000.

Alternate Method

Given: Total Profit = Rs. 1,00,000. Anil = 2 × Aman. Aman = 3 × Ankur.

Formula: Profit Share Ratio = Investment × Time Period. Since time is equal for all, Profit Ratio = Investment Ratio.

=> Let Ankur share be x.

=> Aman share = 3x.

=> Anil share = 2 × (3x) = 6x.

=> Total = 6x + 3x + x = 10x.

=> 10x = 1,00,000 => x = 10,000.

=> Anil = 60,000; Aman = 30,000; Ankur = 10,000.

Therefore The correct answer is Rs. 60,000; Rs. 30,000 and Rs. 10,000.

Additional Information

Partnership Ratio

In a partnership, the profit is distributed in the ratio of the product of Capital and Time (P1:P2 = C1T1:C2T2).

Simple vs Compound Partnership

If time periods are equal, it is a Simple Partnership where profit ratio equals investment ratio. If time periods differ, it is a Compound Partnership.

Q61. Answer: (c) Rs. 128

Shortcut Trick

Net selling price multiplier = (1 + 0.50) × (1 − 0.20) × (1 − 0.20) = 1.5 × 0.8 × 0.8 = 0.96.

Final Selling Price (SP) = 3200 × 0.96 = Rs. 3072.

Loss = CP − SP = 3200 − 3072 = Rs. 128.

Alternatively, net change % = 50 − 20 − 20 + (50×(−20)×(−20)÷10000) is not as fast as direct ratio: 100 → 150 → 120 → 96.

Since 96% is less than 100%, it is a loss of 4% of 3200 = 128.

Therefore The correct answer is Rs. 128.

Alternate Method

Given: Cost Price (CP) = Rs. 3200, Markup % = 50%, First Discount = 20%, Second Discount = 20%.

Formulas: MP = CP × (100 + Markup%) ÷ 100 | SP = MP × (100 − D1%) ÷ 100 × (100 − D2%) ÷ 100 | Profit/Loss = SP − CP.

=> Marked Price (MP) = 3200 + (50% of 3200) = 3200 + 1600 = Rs. 4800.

=> Price after first discount = 4800 − (20% of 4800) = 4800 − 960 = Rs. 3840.

=> Final Selling Price (SP) = 3840 − (20% of 3840) = 3840 − 768 = Rs. 3072.

=> Since SP < CP, there is a loss.

=> Loss = 3200 − 3072 = Rs. 128.

Therefore The correct answer is Rs. 128.

Additional Information

Successive Discounts

When multiple discounts are applied one after another, the single equivalent discount is calculated as a + b − (a × b ÷ 100).

Markup and Profit

Markup is always calculated on the Cost Price, while Discount is always calculated on the Marked Price.

Q62. Answer: (a) 33 km

Shortcut Trick

Downstream speed (D) = 144 + 54 = 198 km/hr

Upstream speed (U) = 144 − 54 = 90 km/hr

Using Distance formula: Distance = (D × U) / (D − U) × Time Difference

=> Distance = (198 × 90) / (198 − 90) × 0.2 = (198 × 90 / 108) × 0.2 = 165 × 0.2 = 33 km

Therefore The correct answer is 33 km.

Alternate Method

Given:

Speed of boat in still water (u) = 144 km/hr

Speed of stream (v) = 54 km/hr

Formula Used:

Downstream speed = u + v | Upstream speed = u − v | Time = Distance ÷ Speed

Calculations:

=> Downstream speed = 144 + 54 = 198 km/hr

=> Upstream speed = 144 − 54 = 90 km/hr

=> Let the distance be D km.

=> Time taken Upstream − Time taken Downstream = 0.2 hours

=> (D ÷ 90) − (D ÷ 198) = 0.2
=> D × [(198 − 90) ÷ (90 × 198)] = 0.2
=> D × [108 ÷ 17820] = 0.2
=> D = (0.2 × 17820) ÷ 108
=> D = 3564 ÷ 108 = 33 km
Therefore The correct answer is 33 km.
Additional Information
Relative Speed in Water
Downstream speed is the sum of boat and stream speed, while upstream speed is the difference between boat and stream speed.
Average Speed for Round Trip
Average Speed = (Downstream speed × Upstream speed) ÷ Still water speed. Note: This applies when distance traveled is equal.
Speed Ratio Property
When distance is constant, the ratio of speeds is inversely proportional to the ratio of time taken: S1/S2 = T2/T1.

Q63. Answer: (c) 176 cm

Shortcut Trick
Area of circle 3850 cm^2 → $\pi r^2 = 3850$ => r = 35 cm.
Circumference = 2 × (22/7) × 35 = 220 cm = Perimeter of rectangle.
Breadth of rectangle (b) = r − 13 = 35 − 13 = 22 cm.
2(L + 22) = 220 => L = 88 cm. Area of square = L × b = 88 × 22 = 1936 cm^2.
Side of square (a) = √1936 = 44 cm. Perimeter = 4 × 44 = 176 cm.
Therefore The correct answer is 176 cm.
Alternate Method
Given: Area of circle = 3850 cm^2, r = b + 13, Circumference = Perimeter of Rectangle, Area of Rectangle = Area of Square.
=> Area of Circle = $\pi r^2 = 3850$
=> (22/7) × $r^2 = 3850$ => $r^2 = 1225$ => r = 35 cm
=> Breadth (b) = r − 13 = 35 − 13 = 22 cm
=> Circumference = 2 × (22/7) × 35 = 220 cm
=> Perimeter of Rectangle = 2(L + b) = 220 => L + 22 = 110 => L = 88 cm
=> Area of Rectangle = L × b = 88 × 22 = 1936 cm^2
=> Area of Square = $a^2 = 1936$ => a = 44 cm
=> Perimeter of Square = 4 × a = 4 × 44 = 176 cm
Therefore The correct answer is 176 cm.
Additional Information
Circle Properties
Area = πr^2 and Circumference = $2\pi r$. If area is 154, r is 7; if area is 616, r is 14; if area is 3850, r is 35.
Square and Rectangle Relation
Perimeter of square = 4a. Area of square = a^2. Perimeter of rectangle = 2(L+B). Area = L × B.
Perfect Squares
Recognizing squares like $40^2 = 1600$ and $50^2 = 2500$ helps find √1936 = 44 quickly.

Q64. Answer: (a) 63/143

Shortcut Trick
Total pens = 7 Blue + 6 Red = 13 pens.
Sample Space n(S) = $^{13}C3$ = (13 × 12 × 11) ÷ (3 × 2 × 1) = 286.
Required Event n(E) = ^7C2 × ^6C1 = 21 × 6 = 126.
Probability P(E) = 126 ÷ 286 = 63 ÷ 143.
Therefore The correct answer is 63/143.
Alternate Method
Given:
Number of Blue pens = 7
Number of Red pens = 6

Total pens in the Urn = 13

Formula Used:

Probability P(E) = [n(E)] ÷ [n(S)]

Combinations $^{n}C_r = n! \div [r! \times (n - r)!]$

Calculations:

=> Total ways to select 3 pens from 13, n(S) = $^{13}C3$

=> n(S) = (13 × 12 × 11) ÷ (3 × 2 × 1) = 13 × 2 × 11 = 286

=> Ways to select 2 Blue pens from 7 = ^7C2 = (7 × 6) ÷ 2 = 21

=> Ways to select 1 Red pen from 6 = ^6C1 = 6

=> Total favorable outcomes n(E) = 21 × 6 = 126

=> P(E) = 126 ÷ 286 = 63 ÷ 143

Therefore The correct answer is 63/143.

Additional Information

Combination Formula

Used when selection order does not matter: $^{n}C_r = n! \div [r!(n - r)!]$. Note that $^{n}C1 = n$ and $^{n}C_n = 1$.

Multiplication Rule in Probability

When two independent events occur together (AND), we multiply their individual favorable outcomes to find the total favorable cases.

Complementary Probability

The probability of an event NOT happening is P(E') = 1 − P(E). Useful for 'at least one' type questions.

Q65. Answer: (c) 10

Shortcut Trick

Let total work (tank capacity) be 60 units (LCM of 30 and 60).

Efficiency of 1 inlet tap = +2 and efficiency of 1 outlet tap = −1.

Combined efficiency of all 15 taps = 60 ÷ 4 = 15 units/hr.

Using Alligation: If all 15 were inlet, efficiency = +30; if all 15 were outlet, efficiency = −15.

Ratio of Inlet to Outlet = (15 − (−15)) : (30 − 15) = 30 : 15 = 2 : 1.

Number of inlet taps = (2/3) × 15 = 10.

Therefore The correct answer is 10 taps.

Alternate Method

Type of Tap	Time (hrs)	Total Work (LCM)	Efficiency
Inlet Tap	30	60	+2
Outlet Tap	60	−1	

Given: Total taps = 15, Total time to fill = 4 hours.

=> Let the number of inlet taps be x.

=> Number of outlet taps = 15 − x.

=> Net efficiency × Total time = Total Work

=> [x × 2 + (15 − x) × (−1)] × 4 = 60

=> [2x − 15 + x] = 60 ÷ 4

=> 3x − 15 = 15

=> 3x = 30

=> x = 10

Therefore The correct answer is 10 taps.

Additional Information

Inlet and Outlet Taps

Inlet taps do positive work (filling), while outlet taps do negative work (emptying) in Time and Work problems.

Efficiency Formula

Total Work = Efficiency × Time. In cistern problems, the LCM of individual times is usually taken as the capacity of the tank.

Alligation in Pipes

When multiple items of two types are mixed to reach an average rate, the Alligation Method provides the fastest ratio of the

quantities.

Q66. Answer: (b) OPOFNPOFIQ

The pattern which follows here is:

Addition of 1 in the positional value of each letter in the cross pattern.

Same pattern will be followed for PHENOMENON:

Hence, the correct answer is OPOFNPOFIQ.

Q67. Answer: (b) 24 m

1) A walked 8m towards North from the park and turned right and walked for 8m then took a right turn and walked for 8m to reach the mall then he started walking in the north-east direction and covered a distance of 13m then started walking in the South direction and covered a distance of 12m to reach the bus stand and finally turned left and walked for 6m to reach home.

2) B walked 2m towards the east from the park and turned left and walked 6 m then turned right and walked 2 m. He then turned right and walked 9m and turned left and walked 2 m and again turned right and walked 2 m and finally turned left and walked 2 m to reach office.

By merging all the diagrams, the final diagram will be as follows:

Total distance covered = 8 m + 8 m + 8 m = 24 m

Hence, the total distance covered by A from the park to the mall is 24 m.

Q68. Answer: (a) 5 m

1) A walked 8m towards North from the park and turned right and walked for 8m then took a right turn and walked for 8m to reach the mall then he started walking in the north-east direction and covered a distance of 13m then started walking in the South direction and covered a distance of 12m to reach the bus stand and finally turned left and walked for 6m to reach home.

2) B walked 2m towards the east from the park and turned left and walked 6 m then turned right and walked 2 m. He then turned right and walked 9m and turned left and walked 2 m and again turned right and walked 2 m and finally turned left and walked 2 m to reach office.

By merging all the diagrams, the final diagram will be as follows:

By using Pythagoras theorem:

(Perpendicular)2 + (Base)2 = (Hypoteneus)2

(12)2 + (Base)2 = (13)2

144 + (Base)2 = 169

(Base)2 = 169 - 144

(Base)2 = 25

(Base)2 = $(5)^2$

Base = 5 m

Hence, the shortest distance between the mall and the bus stand is 5 m.

Q69. Answer: (a) South-East

1) A walked 8m towards North from the park and turned right and walked for 8m then took a right turn and walked for 8m to reach the mall then he started walking in the north-east direction and covered a distance of 13m then started walking in the South direction and covered a distance of 12m to reach the bus stand and finally turned left and walked for 6m to reach home.

2) B walked 2m towards the east from the park and turned left and walked 6 m then turned right and walked 2 m. He then turned right and walked 9m and turned left and walked 2 m and again turned right and walked 2 m and finally turned left and walked 2 m to reach office.

By merging all the diagrams, the final diagram will be as follows:

Hence, B's office is in the South-East direction with respect to B's initial position.

Q70. Answer: (b) Nishu

Person: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu.

Years: 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998

1) The age of Mishu is a prime number.

There are two prime numbers so there will be two possibilities.

2) Two people were born between Mishu and Nishu.

		Persons	
Years	Age	Case I	Case II

1973	48		
1979	42		
1985	36	Nishu	
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20		
2004	17		Mishu

3) The difference between the age of Nishu and Prishu is 6years.

4) The age of Prishu is not divisible by 8.

5) The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17		Mishu

6) Rishu was born just after Krishu.

7) Two were born between Rishu and Ashu.

		Persons	
Years	Age	Case I	Case II
1973	48		Ashu
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		Rishu
1995	26	Ashu	Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17	Rishu	Mishu

8) Dishu was born just before Ashu.

Here, Case II eliminates, As Mishu is just before Ashu and in case II Prishu is just above Mishu.

The final arrangement:

Years	**Age**	**Person**
1973	48	Vishu
1979	42	Prishu
1985	36	Nishu

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1989	32	Dishu
1995	26	Ashu
1998	23	Mishu
2001	20	Krishu
2004	17	Rishu

Hence, Nishu was born in 1985.

Q71. Answer: (d) Krishu

Person: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu.

Years: 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998

1) The age of Mishu is a prime number.

There are two prime numbers so there will be two possibilities.

2) Two people were born between Mishu and Nishu.

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42		
1985	36	Nishu	
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20		
2004	17		Mishu

3) The difference between the age of Nishu and Prishu is 6years.

4) The age of Prishu is not divisible by 8.

5) The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17		Mishu

6) Rishu was born just after Krishu.

7) Two were born between Rishu and Ashu.

		Persons	
Years	Age	Case I	Case II
1973	48		Ashu

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1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		Rishu
1995	26	Ashu	Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17	Rishu	Mishu

8) Dishu was born just before Ashu.

Here, Case II eliminates, As Mishu is just before Ashu and in case II Prishu is just above Mishu.

The final arrangement:

Years	Age	Person
1973	48	Vishu
1979	42	Prishu
1985	36	Nishu
1989	32	Dishu
1995	26	Ashu
1998	23	Mishu
2001	20	Krishu
2004	17	Rishu

The sum of the ages of Mishu and Rishu (23 + 17) is 40.

The average age is 40/2 = 20.

The age of Krishu is 20years.

Hence, Krishu's age is equal to the average of Mishu and Rishu.

Q72. Answer: (a) Two

Person: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu.

Years: 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998

1). The age of Mishu is a prime number.

There are two prime numbers so there will be two possibilities.

2). Two people were born between Mishu and Nishu.

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42		
1985	36	Nishu	
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20		
2004	17		Mishu

3) The difference between the age of Nishu and Prishu is 6years.

4) The age of Prishu is not divisible by 8.

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5) The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17		Mishu

6) Rishu was born just after Krishu.

7) Two were born between Rishu and Ashu.

		Persons	
Years	Age	Case I	Case II
1973	48		Ashu
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		Rishu
1995	26	Ashu	Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17	Rishu	Mishu

8) Dishu was born just before Ashu.

Here, Case II eliminates, As Mishu is just before Ashu and in case II Prishu is just above Mishu.

The final arrangement:

Years	Age	Person
1973	48	Vishu
1979	42	Prishu
1985	36	Nishu
1989	32	Dishu
1995	26	Ashu
1998	23	Mishu
2001	20	Krishu
2004	17	Rishu

Hence, Only two people are born between Vishu and Dishu.

Q73. Answer: (e) Krishu

Person: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu.

Years: 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998

1) The age of Mishu is a prime number.

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There are two prime numbers so there will be two possibilities.

2) Two people were born between Mishu and Nishu.

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42		
1985	36	Nishu	
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20		
2004	17		Mishu

3) The difference between the age of Nishu and Prishu is 6years.

4) The age of Prishu is not divisible by 8.

5) The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17		Mishu

6) Rishu was born just after Krishu.

7) Two were born between Rishu and Ashu.

		Persons	
Years	Age	Case I	Case II
1973	48		Ashu
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		Rishu
1995	26	Ashu	Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17	Rishu	Mishu

8) Dishu was born just before Ashu.

Here, Case II eliminates, As Mishu is just before Ashu and in case II Prishu is just above Mishu.

The final arrangement:

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Years	Age	Person
1973	48	Vishu
1979	42	Prishu
1985	36	Nishu
1989	32	Dishu
1995	26	Ashu
1998	23	Mishu
2001	20	Krishu
2004	17	Rishu

Hence, Only Krishu's age is the multiple of 5.

Q74. Answer: (c) Three

Person: Ashu, Dishu, Krishu, Mishu, Nishu, Rishu, Prishu, and Vishu.

Years: 1973, 2001, 1985, 1979, 2004, 1989, 1995, and 1998

1) The age of Mishu is a prime number.

There are two prime numbers so there will be two possibilities.

2) Two people were born between Mishu and Nishu.

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42		
1985	36	Nishu	
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20		
2004	17		Mishu

3) The difference between the age of Nishu and Prishu is 6years.

4) The age of Prishu is not divisible by 8.

5) The age of Krishu is divisible by 4 but he is neither the eldest person nor was born adjacent to Nishu

		Persons	
Years	Age	Case I	Case II
1973	48		
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		
1995	26		Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17		Mishu

6) Rishu was born just after Krishu.

7) Two were born between Rishu and Ashu.

		Persons	
Years	Age	Case I	Case II
1973	48		Ashu
1979	42	Prishu	
1985	36	Nishu	Krishu
1989	32		Rishu
1995	26	Ashu	Nishu
1998	23	Mishu	
2001	20	Krishu	Prishu
2004	17	Rishu	Mishu

8). Dishu was born just before Ashu.

Here, Case II eliminates, As Mishu is just before Ashu and in case II Prishu is just above Mishu.

The final arrangement:

Years	Age	Person
1973	48	Vishu
1979	42	Prishu
1985	36	Nishu
1989	32	Dishu
1995	26	Ashu
1998	23	Mishu
2001	20	Krishu
2004	17	Rishu

Hence, Only three people are born between Vishu and Ashu.

Q75. Answer: (a) One

1. Neha sits fourth from one of the extreme ends.
2. Five persons are sitting between Neha and Ritu.
3. Riya sits fourth to the right of Ritu and third to the left of Megha.
4. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya.
5. Total number of persons are sitting between Neha and Riya is more than four.

Case II eliminated because in this case number of persons are sitting between Neha and Riya is not more than 4.

6. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya.
7. Nitu sits seventh to the left of Priya.
8. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu.

Hence, One person sits to the left of Nitu.

Q76. Answer: (a) Megha

1. Neha sits fourth from one of the extreme ends.
2. Five persons are sitting between Neha and Ritu.
3. Riya sits fourth to the right of Ritu and third to the left of Megha.
4. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya.
5. Total number of persons are sitting between Neha and Riya is more than four.

Case II eliminated because in this case number of persons are sitting between Neha and Riya is not more than 4.

6. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya.

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7. Nitu sits seventh to the left of Priya.
8. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu.

Hence, Megha sits extreme right end of the row.

Q77. Answer: (d) Nine

1. Neha sits fourth from one of the extreme ends.
2. Five persons are sitting between Neha and Ritu.
3. Riya sits fourth to the right of Ritu and third to the left of Megha.
4. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya.
5. Total number of persons are sitting between Neha and Riya is more than four.

Case II eliminated because in this case number of persons are sitting between Neha and Riya is not more than 4.

6. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya.
7. Nitu sits seventh to the left of Priya.
8. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu.

Hence, Nine persons are sitting between Neha and Riya.

Q78. Answer: (a) Ritu

1. Neha sits fourth from one of the extreme ends.
2. Five persons are sitting between Neha and Ritu.
3. Riya sits fourth to the right of Ritu and third to the left of Megha.
4. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya.
5. Total number of persons are sitting between Neha and Riya is more than four.

Case II eliminated because in this case number of persons are sitting between Neha and Riya is not more than 4.

6. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya.
7. Nitu sits seventh to the left of Priya.
8. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu.

Hence, Ritu sits fourth to the left of Riya.

Q79. Answer: (c) 17

1. Neha sits fourth from one of the extreme ends.
2. Five persons are sitting between Neha and Ritu.
3. Riya sits fourth to the right of Ritu and third to the left of Megha.
4. Number of persons sit between Neha and Priya is equal to the number of persons sit between Priya and Riya.
5. Total number of persons are sitting between Neha and Riya is more than four.

Case II eliminated because in this case number of persons are sitting between Neha and Riya is not more than 4.

6. Number of persons sits between Neha and Anu is one more than the persons sit between Anu and Priya.
7. Nitu sits seventh to the left of Priya.
8. As many persons sit to the right of Megha is one less than the total number of persons sit to the left of Nitu.

Hence,17 persons are sitting in a row.

Q80. Answer: (b) B

Persons: A, B, C, D, E, F, G and H.

1) A sits second to the left of D.

2) F sits immediate left of H.

3) D and F are adjacent to each other.

4) Number of persons to the left of A is one more than number of persons to the right of him. So, H sits at extreme end. Not more than two adjacent persons face in same direction

5) C is not adjacent to A but faces south.

6) C does not sit at extreme end.

7) Person at extreme end face in same direction. So, case 2 would be invalid as number of persons facing north and south is equal.

8) B sits second to the left of G and both face in same direction.

Hence, B sits immediate right of C.

Q81. Answer: (e) A

Persons: A, B, C, D, E, F, G and H.

1) A sits second to the left of D.

2) F sits immediate left of H.

3) D and F are adjacent to each other.

4) Number of persons to the left of A is one more than the number of persons to the right of him. So, H sits at the extreme end. Not more than two adjacent persons face in the same direction

5) C is not adjacent to A but faces south.

6) C does not sit at extreme end.

7) Person at extreme end face in the same direction. So, case 2 would be invalid as the number of persons facing north and south is equal.

8) B sits second to the left of G and both face in the same direction.

All face north except A.

Hence, A does not belong to the group.

Q82. Answer: (b) Four

Persons: A, B, C, D, E, F, G and H.

1) A sits second to the left of D.

2) F sits immediate left of H.

3) D and F are adjacent to each other.

4) Number of persons to the left of A is one more than the number of persons to the right of him. So, H sits at the extreme end. Not more than two adjacent persons face in the same direction

5) C is not adjacent to A but faces south.

6) C does not sit at extreme end.

7) Person at the extreme end face in the same direction. So, case 2 would be invalid as the number of persons facing north and south is equal.

8) B sits second to the left of G and both face in the same direction.

Hence, four persons sit to the right of E.

Q83. Answer: (a) E

Persons: A, B, C, D, E, F, G and H.

1) A sits second to the left of D.

2) F sits immediate to the left of H.

3) D and F are adjacent to each other.

4) Number of persons to the left of A is one more than number of persons to the right of him. So, H sits at extreme end. Not more than two adjacent persons face in same direction

5) C is not adjacent to A but faces south.

6) C does not sit at extreme end.

7) Person at extreme end face in same direction. So, case 2 would be invalid as number of persons facing north and south is equal.

8) B sits second to the left of G and both face in same direction.

Hence, E sits second to the right of G.

Q84. Answer: (b) C

Persons: A, B, C, D, E, F, G and H.

1) A sits second to the left of D.

2) F sits immediate to the left of H.

3) D and F are adjacent to each other.

4) Number of persons to the left of A is one more than the number of persons to the right of him. So, H sits at extreme end. Not more than two adjacent persons face in the same direction

5) C is not adjacent to A but faces south.

6) C does not sit at extreme end.

7) Person at extreme end face in the same direction. So, case 2 would be invalid as the number of persons facing north and south is equal.

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8) B sits second to the left of G and both face in the same direction.

Hence, C sits immediate left of G.

Q85. Answer: (d) Q

Persons: P, Q, R, S, T, U and V.

Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Vehicles: Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck.

1) P travelled by Truck two days before the one, who travelled by car.

2) U moved on Sunday.

3) At most two persons moved before P.

Case 1:

Day	Person	Vehicle
Monday		
Tuesday		
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday		
Saturday		
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday		
Saturday		
Sunday	U	

4) Q, who travelled by Bus, moved just before R, who travelled by Aeroplane.

5) Q does not move on Thursday.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus

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Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

6) The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw.

7) P does not travel by Train or Bike. So, case 2 & 3 is rejected.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		Bike
Friday		Car
Saturday		Train
Sunday	U	Autorickshaw

8) T moved before S, who moved before V.

9) V does not travel by Car. So, case 2 is rejected.

Final case:

Day	Person	Vehicle

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Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday	T	Bike
Friday	S	Car
Saturday	V	Train
Sunday	U	Autorickshaw

Q moved on Monday.

Hence, Q is the correct answer.

Q86. Answer: (e) Three

Persons: P, Q, R, S, T, U and V.

Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Vehicles: Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck.

1) P travelled by Truck two days before the one, who travelled by car.

2) U moved on Sunday.

3) At most two persons moved before P.

Case 1:

Day	Person	Vehicle
Monday		
Tuesday		
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday		
Saturday		
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		

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Friday		
Saturday		
Sunday	U	

4) Q, who travelled by Bus, moved just before R, who travelled by Aeroplane.

5) Q does not move on Thursday.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

6) The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw.

7) P does not travel by Train or Bike. So, case 2 & 3 is rejected.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck

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Thursday		Bike
Friday		Car
Saturday		Train
Sunday	U	Autorickshaw

8) T moved before S, who moved before V.

9) V does not travel by Car. So, case 2 is rejected.

Final case:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday	T	Bike
Friday	S	Car
Saturday	V	Train
Sunday	U	Autorickshaw

Three persons moved before the one, who travelled by Bike.

Hence, Three is the correct answer.

Q87. Answer: (b) Friday

Persons: P, Q, R, S, T, U and V.

Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Vehicles: Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck.

1) P travelled by Truck two days before the one, who travelled by car.

2) U moved on Sunday.

3) At most two persons moved before P.

Case 1:

Day	Person	Vehicle
Monday		
Tuesday		
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday		
Saturday		

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Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday		
Saturday		
Sunday	U	

4) Q, who travelled by Bus, moved just before R, who travelled by Aeroplane.

5) Q does not move on Thursday.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

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6) The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw.

7) P does not travel by Train or Bike. So, case 2 & 3 is rejected.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		Bike
Friday		Car
Saturday		Train
Sunday	U	Autorickshaw

8) T moved before S, who moved before V.

9) V does not travel by Car. So, case 2 is rejected.

Final case:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday	T	Bike
Friday	S	Car
Saturday	V	Train
Sunday	U	Autorickshaw

S moved to Delhi on Friday.

Hence, Friday is the correct answer.

Q88. Answer: (c) Bike, T

Persons: P, Q, R, S, T, U and V.

Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Vehicles: Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck.

1) P travelled by Truck two days before the one, who travelled by car.

2) U moved on Sunday.

3) At most two persons moved before P.

Case 1:

Day	Person	Vehicle
Monday		
Tuesday		
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle

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Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday		
Saturday		
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday		
Saturday		
Sunday	U	

4) Q, who travelled by Bus, moved just before R, who travelled by Aeroplane.

5) Q does not move on Thursday.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck

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Tuesday		
Wednesday		Car
Thursday		
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

6) The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw.

7) P does not travel by Train or Bike. So, case 2 & 3 is rejected.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		Bike
Friday		Car
Saturday		Train
Sunday	U	Autorickshaw

8) T moved before S, who moved before V.

9) V does not travel by Car. So, case 2 is rejected.

Final case:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday	T	Bike
Friday	S	Car
Saturday	V	Train
Sunday	U	Autorickshaw

(Bike, T) is the correct pair.

Hence, Option 3 is correct.

Q89. Answer: (b) Four

Persons: P, Q, R, S, T, U and V.

Days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday.

Vehicles: Aeroplane, Autorickshaw, Bike, Bus, Car, Train and Truck.

1) P travelled by Truck two days before the one, who travelled by car.

2) U moved on Sunday.

3) At most two persons moved before P.

Case 1:

Day	Person	Vehicle
Monday		
Tuesday		

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Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		
Thursday		Car
Friday		
Saturday		
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday		
Saturday		
Sunday	U	

4) Q, who travelled by Bus, moved just before R, who travelled by Aeroplane.

5) Q does not move on Thursday.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		
Friday		Car
Saturday		
Sunday	U	

Case 2:

Day	Person	Vehicle
Monday		
Tuesday	P	Truck
Wednesday		

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Thursday		Car
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

Case 3:

Day	Person	Vehicle
Monday	P	Truck
Tuesday		
Wednesday		Car
Thursday		
Friday	Q	Bus
Saturday	R	Aeroplane
Sunday	U	

6) The one, who travelled by Train, moved just before the one, who travelled by Autorickshaw.

7) P does not travel by Train or Bike. So, case 2 & 3 is rejected.

Case 1:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday		Bike
Friday		Car
Saturday		Train
Sunday	U	Autorickshaw

8) T moved before S, who moved before V.

9) V does not travel by Car. So, case 2 is rejected.

Final case:

Day	Person	Vehicle
Monday	Q	Bus
Tuesday	R	Aeroplane
Wednesday	P	Truck
Thursday	T	Bike
Friday	S	Car
Saturday	V	Train
Sunday	U	Autorickshaw

Four persons moved after P.

Hence, Four is the correct answer.

Q90. Answer: (c) Aman

Given Information

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal

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2 Flat and 5 Floor.

1) Mahesh lives on the 2nd floor.

2) There are two floors gap is between Mahesh and Vishal and both do not live in the same flat number.

3) Sahil lives just below the floor in which Vishal lives.

Floor / Flat	Case I	Case II		
Flat-1	Flat-2	Flat-1	Flat-2	
		Vishal	Vishal	
		Sahil		
	Mahesh			Mahesh

4) Janvi lives in west with respect to Sahil.

(Case II is invalid because there is no place to the west of Sahil)

5) Both Krishna and Manvi live on the same floor.

6) More than two floors gap are between Sonam and Manvi.

Floor / Flat	Case I	Case III		
Flat-1	Flat-2	Flat-1	Flat-2	
	Sonam	Vishal	Sonam	Vishal
	Janvi	Sahil	Janvi	Sahil
	Mahesh		Mahesh	
	Manvi	Krishna	Krishna	Manvi

7) Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi.

(Case III is eliminated because there is no place from the north east of Manvi)

8) Both Salvi and Sajida does not live in the same flat number.

Floor / Flat	Case 1	
Flat-1	Flat-2	
	Sonam	Vishal
	Janvi	Sahil
	Salvi	Aman
	Mahesh	Sajida
	Manvi	Krishna

Salvi lives west of Aman.

Hence, the answer is Aman.

Q91. Answer: (b) Three

Given Information

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal

2 Flat and 5 Floor.

1) Mahesh lives on the 2^(nd) floor.

2) There are two floors gap is between Mahesh and Vishal and both do not live in the same flat number.

3) Sahil lives just below the floor in which Vishal lives.

Floor / Flat	Case I	Case II		

Flat-1	Flat-2	Flat-1	Flat-2	
		Vishal	Vishal	
		Sahil		
	Mahesh			Mahesh

4) Janvi lives in west with respect to Sahil.

(Case II is invalid because there is no place to the west of Sahil)

5) Both Krishna and Manvi live on the same floor.

6) More than two floors gap are between Sonam and Manvi.

Floor / Flat	**Case I**	**Case III**		
Flat-1	Flat-2	Flat-1	Flat-2	
	Sonam	Vishal	Sonam	Vishal
	Janvi	Sahil	Janvi	Sahil
	Mahesh		Mahesh	
	Manvi	Krishna	Krishna	Manvi

7) Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi.

(Case III is eliminated because there is no place from the north east of Manvi)

8) Both Salvi and Sajida does not live in the same flat number.

Floor / Flat	**Case 1**	
Flat-1	Flat-2	
	Sonam	Vishal
	Janvi	Sahil
	Salvi	Aman
	Mahesh	Sajida
	Manvi	Krishna

There are 3 floors between Vishal and Krishna.

Hence, the answer is Three.

Q92. Answer: (e) Floor 5 - Flat 2 - Vishal

Given Information

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal

2 Flat and 5 Floor.

1) Mahesh lives on the 2nd floor.

2) There are two floors gap is between Mahesh and Vishal and both do not live in the same flat number.

3) Sahil lives just below the floor in which Vishal lives.

Floor / Flat	**Case I**	**Case II**		
Flat-1	Flat-2	Flat-1	Flat-2	
		Vishal	Vishal	
		Sahil		

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	Mahesh			Mahesh

4) Janvi lives in west with respect to Sahil.

(Case II is invalid because there is no place to the west of Sahil)

5) Both Krishna and Manvi live on the same floor.

6) More than two floors gap are between Sonam and Manvi.

Floor / Flat	Case I	Case III		
Flat-1	Flat-2	Flat-1	Flat-2	
	Sonam	Vishal	Sonam	Vishal
	Janvi	Sahil	Janvi	Sahil
	Mahesh		Mahesh	
	Manvi	Krishna	Krishna	Manvi

7) Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi.

(Case III is eliminated because there is no place from the north east of Manvi)

8) Both Salvi and Sajida does not live in the same flat number.

Floor / Flat	Case 1	
Flat-1	Flat-2	
	Sonam	Vishal
	Janvi	Sahil
	Salvi	Aman
	Mahesh	Sajida
	Manvi	Krishna

All the given option only Floor 5 - Flat 2 - Vishal is correct.

Hence, the answer is Floor 5 - Flat 2 - Vishal.

Q93. Answer: (d) Janvi - Sahil

Given Information

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal

2 Flat and 5 Floor.

1) Mahesh lives on the 2nd floor.

2) There are two floors gap is between Mahesh and Vishal and both do not live in the same flat number.

3) Sahil lives just below the floor in which Vishal lives.

Floor / Flat	Case I	Case II		
Flat-1	Flat-2	Flat-1	Flat-2	
		Vishal	Vishal	
		Sahil		
	Mahesh			Mahesh

4) Janvi lives in west with respect to Sahil.

(Case II is invalid because there is no place to the west of Sahil)

5) Both Krishna and Manvi live on the same floor.

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6) More than two floors gap are between Sonam and Manvi.

Floor / Flat	Case I	Case III		
Flat-1	Flat-2	Flat-1	Flat-2	
	Sonam	Vishal	Sonam	Vishal
	Janvi	Sahil	Janvi	Sahil
	Mahesh		Mahesh	
	Manvi	Krishna	Krishna	Manvi

7) Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi.

(Case III is eliminated because there is no place from the north east of Manvi)

8) Both Salvi and Sajida does not live in the same flat number.

Floor / Flat	Case 1	
Flat-1	Flat-2	
	Sonam	Vishal
	Janvi	Sahil
	Salvi	Aman
	Mahesh	Sajida
	Manvi	Krishna

Janvi and Sahil live on floor 4.

Hence, the answer is Janvi - Sahil.

Q94. Answer: (a) Sajida

Given Information

Ten people Aman, Sonam, Salvi, Sajida, Mahesh, Janvi, Manvi, Krishna, Sahil and Vishal

2 Flat and 5 Floor.

1) Mahesh lives on the 2nd floor.

2) There are two floors gap is between Mahesh and Vishal and both do not live in the same flat number.

3) Sahil lives just below the floor in which Vishal lives.

Floor / Flat	Case I	Case II		
Flat-1	Flat-2	Flat-1	Flat-2	
		Vishal	Vishal	
		Sahil		
	Mahesh			Mahesh

4) Janvi lives in west with respect to Sahil.

(Case II is invalid because there is no place to the west of Sahil)

5) Both Krishna and Manvi live on the same floor.

6) More than two floors gap are between Sonam and Manvi.

Floor / Flat	Case I	Case III		
Flat-1	Flat-2	Flat-1	Flat-2	
	Sonam	Vishal	Sonam	Vishal
	Janvi	Sahil	Janvi	Sahil

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	Mahesh		Mahesh	
	Manvi	Krishna	Krishna	Manvi

7) Aman lives just above the floor in which Sajida lives and in North-east with respect to Manvi.

(Case III is eliminated because there is no place from the north east of Manvi)

8) Both Salvi and Sajida does not live in the same flat number.

Floor / Flat	Case 1	
Flat-1	Flat-2	
	Sonam	Vishal
	Janvi	Sahil
	Salvi	Aman
	Mahesh	Sajida
	Manvi	Krishna

Manvi and Krishna live on the same floor similarly Salvi and Aman live on the same floor. Only Sajida is the one who does not have any pair.

Hence the answer is Sajida.

Q95. Answer: (a) Only Conclusion I follows

The least possible Venn diagram is:

Conclusions:

I. Some P are N → True (As All M are N and Some M are P than Some P are N is definitely true)

II. No P is a N → False (As All M are N and Some M are P than Some P are N. So, No P is N is not true)

Hence, Only Conclusion I follows.

Additional Information

Q96. Answer: (a) If only conclusion I follows.

The best possible Venn diagram is,

Conclusions:

I. All Yellow being Blue is a possibility: True(as no such restriction is seen in the diagram above, it is possible)

II. Some Pink are Red: False (No direct relation between Red and Pink)

Hence, Only conclusion I follow.

Additional InformationOnly a few A are B means some A are B and some A are not B.

Some B is not A - false

All B being A is a possibility - true

All A being B is a possibility - false

Q97. Answer: (d) Only I follow

Statement:

Only a few Sea are River → Some parts of Sea are River and Some parts of sea are not River.

All River are Water bodies → All river will be part of Waterbodies

The least possible venn diagram will be.

Conclusion :

I. Some Sea are Water bodies → True (Some parts of Sea are River and All River are water bodies hence some sea are water bodies)

II. All sea are River → False (Some parts of Sea are River and Some parts of the sea are not River hence all sea are river is False)

Hence,Only I follow.

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Q98. Answer: (a) Only Conclusion I is True

Statement:

C < R < I ≤ T ≤ S = Y > P ≥ A < L < D < F ≥ G ≥ H

Conclusions:

I. Y > C → True (C < R < I ≤ T ≤ S = Y → C < Y also, Y > C)

II. Y > D → False (Y > P ≥ A < L < D, as definite relationship between Y and D cannot be determined).

III. I < A → False (I ≤ T ≤ S = Y > P ≥ A, as definite relationship between I and A cannot be determined).

Hence, Only conclusion I is true

Q99. Answer: (c) , ≥, =

Let us check the options

I. X > N = O ≥ S > P → N > P

II. X = N ≥ O ≥ S = P → S ≤ X

III. X > N ≥ O ≥ S = P → S < X, N ≥ P

IV. X > N > O ≥ S ≥ P → N > P

Hence, the correct sequence of symbols to satisfy the given condition is “>, ≥, =”.

Q100. Answer: (a) <, <

Given statement: R = N > Q ? T < V = O ? P ≥ S ≤ U

To make expression P > Q definitely true in the above statement,

I. T must be greater than or equal to Q (T > Q, T = Q, T ≥ Q)

II. P must be greater than or equal to O (P > O, P = O, P ≥ O)

From the options, Q < T, O < P

Hence, the answer is <, <

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