SBI PO Pre Mock-02 Based on 2nd shift-20th November 2021

Directions (1-10): Read the following passage and answer the given questions based on the information provided in the passage.

Rat eradication has become a common conservation intervention in island ecosystems and its effectiveness in protecting native vertebrates is increasingly well documented. Yet, the impacts of rat eradication on plant communities remain poorly understood. Here we compare native and non-native tree and palm seedling abundance before and after eradication of **interloper** rats from Palmyra Atoll, Line Islands, Central Pacific Ocean. Overall, seedling recruitment increased for five of the six native tree species examined. Our results emphasize the strong effects that a rat eradication can have on tree recruitment with expected long-term effects on canopy composition. Eradication, nevertheless, greatly benefitted the recruitment of native tree species. If this pattern persists over time, we expect long-term benefits for flora and fauna dependent on these native species. Non-native rodents have invaded about 80% of the world's island groups, posing a severe threat to native insular biodiversity. Invasive rats are omnivores with a range of direct and indirect impacts on island communities.

As predators of animals, they have caused the extinction of numerous animal species in insular communities, including reptiles, seabirds, landbirds and invertebrates, with many additional indirect impacts, such as effects to nutrient subsidies supplied by these animals. In addition, as omnivores, non-native, invasive rats also consume seeds, seedlings, and adult plants, leading to changes in the abundance, composition, and structure of plant communities, including the extinction of some endemic island plant species. Invasive rat eradication on islands is an established conservation tool that has been shown to benefit native biodiversity and human well-being. Yet, despite the increasing frequency of rat eradications globally and substantial evidence that rats can directly and indirectly affect many plant species, there are few detailed pre- and post-eradication studies with **concentration** on plant community change following a rat eradication, especially on tropical islands.

Amongst those that have, only a handful of studies–all from temperate New Zealand–have ___**(A)**___ the effects of rat removal on seedling recruitment. Plant species can be expected to vary in their susceptibility to seed predation and herbivory by Rattus due to factors such as palatability, seed size, accessibility, and seed coat strength. On Palmyra Atoll, invasive Rattus species are recognized as seed predators of seven of the eight species of tree and palm included in this study; the exception is the uncommon, non-native tree for which rats have been observed manipulating but not killing any seeds. Rattus is known to have a particular preference for seeds of P. grandis, an ecologically important native tree that provides a nesting habitat for many seabird species as well as important habitat for geckos and insects. Due to a combination of rat and land crab predation, recruitment and establishment of P. grandis from seed on Palmyra Atoll was very limited in the presence of rats. In spite of this low recruitment and survival, the size of the P. grandis population across Palmyra Atoll has remained one of the largest in the tropical Pacific, with its persistence likely the result of vegetative sprouting (e.g., plants regenerating through fallen branches). However, a number of investigators have reported that P. grandis is in decline both on Palmyra Atoll and globally.

Q1. What effect would rat eradication have on flora and fauna?

(a) Long-term effects on tree crown structure are expected.
(b) It may create a serious danger to isolated biodiversity.
(c) The recruitment of native tree species will be greatly facilitated.
(d) Only (a) and (b)
(e) Both (a) and (c)

Q2. Which of the following statements about non-native rodents is/are incorrect?
(a) On most of the world's island groups, non-native rodents are rare.
(b) They pose a serious danger to the island's native biodiversity.
(c) They affect island communities in a variety of ways, both directly and indirectly.
(d) Only (a) and (c)
(e) None of these

Q3. What has/have been the impact(s) of invasive rats on plant communities?
(a) Only adult plants are largely consumed by invasive rats.
(b) They alter the structure and composition of plant communities.
(c) Some endemic island plant species were wiped off as a result of their invasion.
(d) Only (b) and (c)
(e) All of these

Q4. Why were P. grandis' recruitment and establishment on Palmyra Atoll constrained?
(a) Because they serve as a breeding ground for a variety of seabird species.
(b) Because they are known to have a special affinity for seeds.
(c) Predation by rats and land crabs has resulted in its eradication.
(d) It is due to widespread recruitment and seedling establishment of P. grandis.
(e) None of these

Q5. Which of the following statements about P. grandis is/are correct based on the information provided in the given passage?
(a) It is a very essential natural tree for the environment.
(b) Many different seabird species use it as a nesting site.
(c) P. grandis has been reported to be declining by several researchers.
(d) Only (b) and (c)
(e) All of these

Q6. What has been the impact of invasive rats on animal species?
(a) Numerous animal species have perished as a result of them.
(b) They have also impacted the nutrient subsidies supplied by these animals.
(c) They act as animal feeders.
(d) All of these
(e) Only (a) and (c)

Q7. Why has the author referred to the elimination of invasive rats on islands as a well-established conservation tool?
(a) Because they consume seedlings and adult plants, leading to changes in the structure of plants.
(b) They have resulted in the extinction of many species and have had an impact on nutrient subsidies.
(c) As a result of their consumption, certain native island plant species will become extinct.
(d) Because it will enhance both natural biodiversity and human health.
(e) All of these

Q8. Choose the most appropriate word from the following options to fill in the blank (A), as highlighted in the given passage?
(a) Displaced
(b) Aborted
(c) Examined
(d) Suspended
(e) Thrived

Q9. Choose the most appropriate synonym of the word **'INTERLOPER'**, as highlighted in the given passage?
(a) Prorogue
(b) Abeyance
(c) Emergence
(d) Intruder
(e) Termination

Q10. Choose the most appropriate synonym of the word **'CONCENTRATION'**, as highlighted in the given passage?
(a) Collection
(b) Focused
(c) Dilution
(d) Clusters
(e) Gathering

Directions (11-15): In each of the questions given below three words are given in bold. These three words may or may not be placed in their correct position. The sentence is then followed by options with the correct combination of words that should replace each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.

Q11. Wisdom lies in learning from the **prosperity (A)**, being smart and resilient in the **present (B)** and securing our **past (C)** in the future.
(a) CBA
(b) BCA
(c) ACB
(d) CAB
(e) No rearrangement required

Q12. It is common sense that no country will allow the **unless (A)** of Indian goods and services **import (B)** that country is able to **export (C)** its goods and services to India on reasonable and fair terms.
(a) CAB
(b) BAC
(c) ACB
(d) BCA
(e) No rearrangement required

Q13. We must re-learn to **engage (A)** with other countries and **bilateral (B)** favourable trade agreements through the **negotiate (C)** and multilateral routes.
(a) CBA
(b) BAC
(c) CAB
(d) ACB
(e) No rearrangement required

Q14. With the introduction of economic reforms **lobbying (A)** since 1991, employers and the global **financial (B)** institutions have been **concretely (C)** for labour market and structural reforms.
(a) ACB
(b) BCA
(c) CBA
(d) BAC
(e) No rearrangement required

Q15. Some parents have **deepen (A)** the pandemic period as an opportunity to **enroll (B)** their children in such online classes where they can gather new skills or **witnessed (C)** their learning.
(a) BCA
(b) CBA
(c) BAC
(d) ACB
(e) No rearrangement required

Directions (16-19): In each of the questions given below, a statement with a highlighted word is given. The highlighted word may or may not be used correctly in the given statements. Choose the most appropriate word from the given options which could replace the highlighted word to make the statements grammatically and contextually correct.

Q16. Incessant rain **carved** the south coastal region of Andhra Pradesh under the influence of severe cyclonic storm Nivar over the Bay of Bengal,
(a) mashed
(b) paved
(c) lashed
(d) graced
(e) No replacement required

Q17. With schools being closed for nearly eight months due to the pandemic, parents are **perturbed** about their children's education.
(a) composed
(b) purveyed
(c) furnished
(d) equanimous
(e) No replacement required

Q18. The development economics of large countries is a subject that studies how developing countries **attenuate** into developed countries through industrialization and structural transformation.
(a) coercive
(b) evolve
(c) smash
(d) enervate
(e) No replacement required

Q19. To study the heterogeneous relationship between **averse** worker performance and earnings, we require a detailed data set with information on numerous performance metrics and pay.
(a) frugal
(b) cautious
(c) sparing
(d) prudent
(e) No replacement required

Directions (20-25): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five options are given. Find the word which fits the blank most appropriately.

Q20. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.
The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.
(a) sagacious
(b) percipient
(c) contentious
(d) discerning
(e) absconding

Q21. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.

The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.

(a) mitigation
(b) agitation
(c) legislation
(d) alleviation
(e) diminution

Q22. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.

The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.

(a) hampering
(b) demanding
(c) provoking
(d) restraining
(e) cumbering

Q23. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.

The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.

(a) concealing
(b) intricating
(c) revealed
(d) enunciating
(e) betraying

Q24. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.
The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.
(a) manifest
(b) broadcast
(c) provisions
(d) mitigation
(e) propound

Q25. Responding to Prime Minister Narendra Modi's decision to roll back the three _____**(20)**_____ farm laws, the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the _____**(21)**_____, on Sunday evening wrote an open letter to the Prime Minister _____**(22)**_____ a legal guarantee of remunerative Minimum Support Price (MSP) and withdrawal of the draft Electricity Amendment Bill, 2020-21, while _____**(23)**_____ the hope that the farmer leaders would be called for a discussion.
The letter also sought the removal of the penal _____**(24)**_____ on farmers under the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, and withdrawal of cases against thousands of farmers who have been _____**(25)**_____ during the protest against the farm laws.
(a) implicated
(b) acquitted
(c) exonerated
(d) denounced
(e) exculpated

Directions (26-30): Read the given sentences to find out whether there is any grammatical mistake/error in them. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark (E) 'No Error' as your answer. (Ignore errors of punctuation, if any)

Q26. The approach to the evaluation of player skills (A)/ would be to aggregate several measures (B)/ of skill into factor loadings using (C)/ either principal component analysis or factor analysis. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q27. After the outbreak of COVID-19 in China, (A)/ the daily routines of college students was markedly disrupted, (B)/ due to adjustments required for online learning (C)/ platforms and maintenance of social distancing. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q28. The economic research on the COVID-19 pandemic is based (A)/ on an overlapping generations model for which (B)/ inequalities are explained by a combination of capital (C)/ market imperfections and fixed costs of investment. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q29. The repeal of three agriculture laws announced (A)/ by Prime Minister Narendra Modi on November 20 (B)/ will taken up for approval by the Union Cabinet (C)/ at its next sitting on November 24. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q30. According to the timeline of the COVID-19 epidemic, (A)/ China achieved peak infection rates (B)/ in February 2020 and reopened (C)/ to society at the end of April 2020. (D)
(a) A
(b) B
(c) C
(d) D
(e) No error

Directions (31-35): Study the given passage carefully & answer the questions.
In a sport Academy 'XY', there are some students who can play three games i.e., tennis, cricket & chess. Total number of players who play tennis is 160 & all three games are played by 10% of total tennis players. Ratio of cricket to chess players is 3:5 and total of cricket & chess players is 100% more than tennis players. Players who play both tennis and chess are $12\frac{1}{2}$% of total tennis players. Ratio of players who play both tennis & cricket to players who play both chess & cricket is 2:3 & total of players who play both tennis & cricket and players who play both chess & cricket is equal to one-fourth of chess players.

Q31. What is the average no. of players who play only one game?

(a) $139\frac{2}{3}$

(b) $129\frac{1}{3}$

(c) 135

(d) None of these

(e) $129\frac{2}{3}$

Q32. Players who play chess but not cricket is approximately what percent of total players?

(a) 35%

(b) 45%

(c) None of these

(d) 40%

(e) 50%

Q33. What is ratio of players who play both tennis & chess to players who play only cricket?

(a) 7 : 13

(b) 9 : 41

(c) 10 : 43

(d) None of these

(e) 2 : 5

Q34. Players who play at least two games is approximately what percent of players who play utmost two games?

(a) 4%

(b) 6%

(c) 15%

(d)12%

(e)9%

Q35. What is the difference between no. of players who can play tennis & players who play only cricket?

(a) 74

(b) 64

(c) 68

(d) None of these

(e) 72

Q36. Abhishek took a loan of Rs.1,20,000 from the bank at the rate of 8% compound interest for 2 years. He invested 3/4th of the loan amount in a scheme which offers 10% compound interest annually for 2 years. Find his profit/loss at the end of 2 years, if he keeps rest of the money.

(a) Rs.600 profit
(b) R.300 profit
(c) Rs.700 loss
(d) Rs.700 profit
(e) Rs.1068 loss

Q37. Dev and Deepak start a business in partnership. Dev invested 25% more capital than Deepak but he invested for 4 months less than that by Deepak. If the profit share of Deepak is Rs.4000, which is Rs.1000, more than that of Dev, then find the time of investment of Dev.
(a) 10 months
(b) 8 months
(c) 6 months
(d) 4 months
(e) 9 months

Q38. The selling price of one chair and one table is Rs.480 each. If chair was sold at the loss of 25% and table was sold at the profit of 60%, then find the difference between the cost price of chair and table.
(a) Rs.360
(b) Rs.280
(c) Rs.300
(d) Rs.340
(e) Rs.350

Q39. There is a mixture of 70 kg which contains Alcohol and water. The quantity of water in the mixture is 'S' liter. If the 50% more water is added in the mixture, the ratio of alcohol and water become 8: 9, then find the final quantity of the mixture.
(a) 70 kg
(b) 75 kg
(c) 85 kg
(d) 60 kg
(e) 80 kg

Q40. A boat covers 22.4 km in downstream in 48 minutes and the speed of the stream is 40% of the speed of the boat in still water. Find the ratio of time taken by boat to cover 54 km in upstream to the time taken by boat to cover 210 km in downstream respectively?
(a) 5 : 3
(b) 3 : 5
(c) 3 : 4
(d) 2 : 3
(e) 1 : 3

Directions (41-45): The table given below shows total number of bread packets (White+ Brown) sold by five different shopkeepers on Monday and it also shows ratio of sold packets of white and brown bread by each shopkeeper on same day. Read the given table carefully and answer the following questions.

Shopkeepers	Total number of bread packets sold	Ratio of sold packets of white and brown bread
A	135	5: 4
B	140	9: 5
C	180	4: 5
D	160	13: 19
E	150	7: 8

Q41. Find the ratio of total brown bread packets sold by B and C together to total white bread packets sold by A and D together.

(a) 1: 1
(b) 15: 14
(c) 10: 9
(d) 14: 11
(e) 13: 10

Q42. Find the difference between the average number of white bread packets sold by B, C & E and average number of brown bread packets old by A, C and D?

(a) 10
(b) 15
(c) 8
(d) 5
(e) 0

Q43. Shopkeeper B sold only 30% of total white bread packets and 75% of total white bread packets remains unsold of shopkeeper A, then find the total white bread packets shopkeeper A had is what percentage of total white bread packets shopkeeper B had.

(a) 100%
(b) 50%
(c) 75%
(d) 0%
(e) 200%

Q44. Shopkeeper D have only two brands of bread (Harvest & Good day). 5/13th of the total sold white bread packets and 6/19th of total sold brown bread packets are of Harvest brand, then find the total number of good day brand of bread sold by D.

(a) 95
(b) 85
(c) 75
(d) 105
(e) 115

Q45. A and C sold 20% and 25% more bread packets on Tuesday as compare to previous day. If the ratio of sold bread packets of white bread and brown bread are same as on Monday, then find total number of white breads sold by A is what percentage more or less than that of by C on Tuesday.

(a) 0%
(b) 90% more
(c) 10% less
(d) $11\frac{1}{9}$% more
(e) 20% less

Q46. An amount is divided among Deepak, Shivam and Prashant. Amount received by Deepak is Rs. 40 more than 40% of total amount and amount received by Shivam is Rs. 5 more than 25% of total amount, while amount received by Prashant is 32% of total amount. Find the amount received by Shivam.

(a) Rs.480
(b) Rs.640
(c) Rs.540
(d) Rs.450
(e) Rs.380

Q47. 14 men working together can complete a piece of work in 18 days while 21 women working together can complete same work in 20 days. If a child is 20% less efficient than a man, then find the time taken to complete the same work by 15 children working together.

(a) 28 days
(b) 21 days
(c) 24 days
(d) 20 days
(e) 18 days

Q48. Length of a rectangular field is 200% of radius of a circular field, having circumference 264 meters. If area of rectangular field is 2016 meters square, then find radius of circular field is what percent more than breadth of rectangular field?

(a) 75%
(b) 125%
(c) 50%
(d) 25%
(e) 87.5%

Q49. The average age of Tanya, Himanshi and Shukhdeep is 51 years. The ratio of present age of Tanya to that of Himanshi is 5:8 and present age of Shukhdeep is six years more than that of Himanshi. Find the age of Shukhdeep five years ago.

(a) 57 years
(b) 59 years
(c) 52 years
(d) 47 years
(e) 42 years

Q50. Train A which length is 20% more than that of train B crosses each other in 13.2 sec when moving in opposite direction. Train A overtakes train B in 66 sec. Find the ratio of speed of train A and speed of train B.

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

Directions (51-55): What will come in the place of question (?) mark in following number series:

Q51. ?, 19, 15, 24, 8, 33

(a) 18
(b) 5
(c) 11
(d) 7
(e) 17

Q52. 72, 36, ?, 135, 472.5, 2126.25

(a) 90
(b) 101
(c) 54
(d) 68
(e) 72

Q53. 226, 101, 37, ?, 2, 1

(a) 30
(b) 8
(c) 15
(d) 25
(e)10

Q54. 101, ?, 145, 168, 197, 224
(a) 104
(b)120
(c) 125
(d) 132
(e) 116

Q55. 144, 155, 168, 185, 204, ?
(a) 229
(b) 231
(c) 268
(d) 227
(e) 245

Directions (56-60): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer

Q56.
I. $2x^2 - 13x + 20 = 0$
II. $y^2 + 10y + 24 = 0$
(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 between x and y.

Q57.
I. $x^2 - 9x + 18 = 0$
II. $2y^2 - 9y + 9 = 0$
(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 between x and y.

Q58.
I. $x^2 - 17x + 70 = 0$
II. $y^2 - 14y + 48 = 0$
(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 between x and y.

Q59.

I. $4x^2 + 3x - 10 = 0$
II. $y^2 + 10y - 119 = 0$

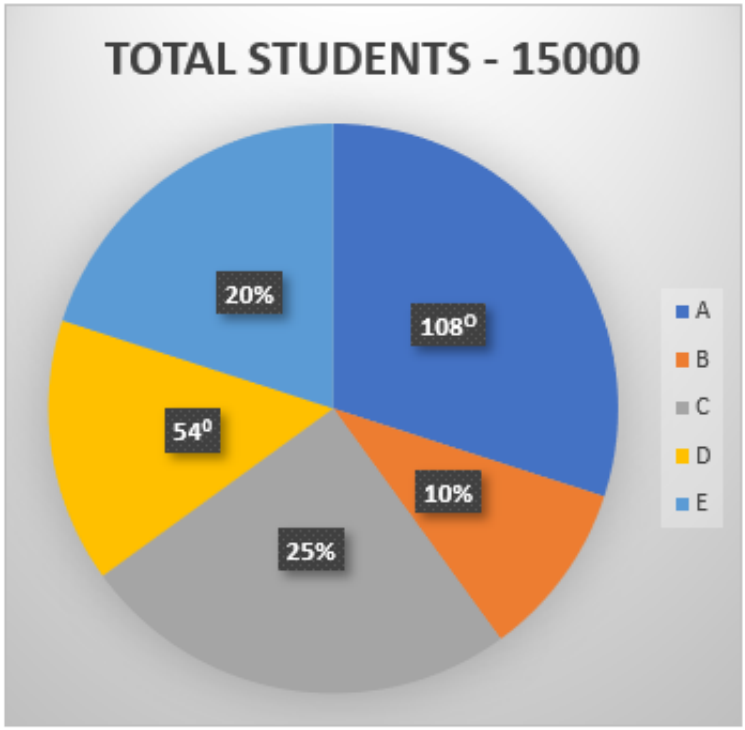
(a) If x> y
(b) If x≥ y
(c) If x< y
(d) If x≤ y
(e) If x = y or no relation can be established between x and y.

Q60.

I. $x^2 - 11x + 28 = 0$
II. $y^2 + 13y + 30 = 0$

(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 between x and y.

Directions (61-65): The following pie chart gives information about the distribution of no. of students in five government schools. Read the following pie chart carefully and answer the following questions given below.



Q61. If 30% and 20% of students in school A and D are girls respectively then find how many boys are present in the in the school A and D?

(a) 4150
(b) 2250
(c) 3150
(d) 4950
(e) 4880

Q62. Find the average of students studying in school A, D and E?
(a) 1050
(b) 2250
(c) 7890
(d) 3250
(e) 4525

Q63. If the fee of students studying in B, C and D is Rs 50, Rs 30 and Rs 40 respectively. Find the total fee collection in these schools.
(a) 277500
(b) 378700
(c) 322322
(d) 250040
(e) 354700

Q64. Find the difference of students studying in A and D together and B and C together?
(a) 1000
(b) 2500
(c) 1500
(d) 9000
(e) 3460

Q65. Find the difference of student studying in A and the average number student studying in C and D together?
(a) 550
(b) 400
(c) 2500
(d) 2250
(e) 1500

Directions (66-70): Study the following information carefully and answer the questions given below:
There are ten persons i.e. A, B, C, D, E, F, G, H, I and J who live in a building having five floors such that ground floor is numbered as 1 and above it is 2 and so on up to top floor numbered as 5. Each of the floor consist of 2 flats as flat-1 and flat-2. Flat-1 of floor-2 is immediately above flat-1 of floor-1 and immediately below flat-1 of floor-3 and the same way followed by flat-2. Flat-2 is in east of flat-1.
F lives east to A. B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. E does not live on same floor of D. I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C who lives in flat-1.

Q66. Who among the following lives in Flat-1 of 4th floor?
(a) H
(b) D
(c) E
(d) B
(e) C

Q67. C lives on which floor?
(a) 1st
(b) 2nd
(c) 3rd
(d) 4th
(e) 5th

Q68. Four of the following five belongs to a group in a certain way. Who does not belong to the group?
(a) H
(b) A
(c) G
(d) B
(e) J

Q69. J lives on which floor and flat respectively?
(a) 4,2
(b) 5,1
(c) 1,2
(d) 2,1
(e) 4,1

Q70. Who among the following lives on even numbered floor and even number flat?
(a) H
(b) I
(c) G
(d) J
(e) E

Directions (71-75): Study the following information carefully and answer the questions given below:
In a certain code:
"Welcome we are" is coded as "xf bf go"
"We are great going" is coded as "xf bf hu hh"
"Great persons are cool" is coded as "hu qt bf dm"
"Cool being great" is coded as "dm ch hu"

Q71. What is the code for the word "Great"?
(a) bf
(b) hu
(c) qt
(d) dm
(e) None of the above

Q72. What is the code for the word "Persons"?
(a) bf
(b) hu
(c) qt
(d) dm
(e) None of the above

Q73. Which of the following word is coded as "ch"?
(a) we
(b) are
(c) Great
(d) Being
(e) None of the above

Q74. What is the code for the word "cool"?
(a) bf
(b) hu
(c) qt
(d) dm
(e) None of the above

Q75. Which of the following word is coded as "xf"?
(a) we
(b) are
(c) Great
(d) Persons
(e) None of the above

Q76. If the letters in the word "BRIGHT" rearranged as they appear in the English alphabetical order then the position of how many letters will remain unchanged after the rearrangement?
(a) None
(b) One
(c) Two
(d) Three
(e) More than three

Q77. Amongst five persons buy things one after other from Tuesday to Saturday. Two persons buy thing between A and Q. A buy immediately before T and after S. No one buys between M and T. Who among the following buy on one day before M?

(a) A
(b) T
(c) S
(d) Q
(e) Can't be determined

Directions (78-82): Study the following information carefully and answer the questions given below:

Eight persons i.e., F, G, H, I, J, K, L and M are sitting in two rows in such a way that four persons sit in each row. Persons sitting in row 1 faces north and persons in row 2 faces South. Persons sitting in row 1 face the persons sitting in row 2. They like different dishes i.e., Burger, Pizza, veg puff, Fries, Sandwich, Noodle, Roll and Momo but not necessarily in the same order.

G faces the person who sits 2nd to the right of the person who likes Fries. F sits immediate left of the person who likes Burger. H neither like veg puff nor Pizza. I and J sit diagonally opposite to each other. F likes noodle and faces G. H sits immediate right of J who sits in row 1. M likes roll and faces the person who sits 2nd to the left of K. The person who likes Sandwich sits immediate right of the person who likes veg puff.

Q78. Who among the following faces L?

(a) H
(b) The person who like Momo
(c) F
(d) The person who like Fries
(e) None of these

Q79. Which of the following dish I likes?

(a) Momo
(b) Fries
(c) Veg puff
(d) Sandwich
(e) None of these

Q80. Who among the following sits immediate left of the person who likes Pizza?

(a) G
(b) The person who likes Roll
(c) I
(d) The person who likes Veg puff
(e) None of these

Q81. Which of the following is true regarding M?
(a) M sits at the extreme end
(b) L and G are not immediate neighbours of M
(c) M faces the person who likes Momo
(d) Two persons sit between M and L
(e) All are true

Q82. Four of the following five are alike in a certain way based from a group, find the one which does not belong to that group?
(a) J
(b) G
(c) K
(d) L
(e) I

Directions (83-85): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer

Q83.
Statements:
$P1 > P2 = P3 < P4 \leq P5 > P6$
Conclusions:
I. $P5 > P2$
II. $P6 > P3$
(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q84.
Statements:
$P \geq N > D \geq G < B \leq J$
Conclusions:
I. $G < P$
II. $G < J$
(a) If only conclusion I follows
(b) If only conclusion II follows
(c) If either conclusion I or conclusion II follows
(d) If neither conclusion I nor conclusion II follows
(e) If both conclusions I and II follow

Q85.

Statement:

$Q \leq E < I > N = R \geq S$

Conclusions:

I. $E \geq S$

II. $S \leq N$

(a) If only conclusion I follows

(b) If only conclusion II follows

(c) If either conclusion I or conclusion II follows

(d) If neither conclusion I nor conclusion II follows

(e) If both conclusions I and II follow

Directions (86-89): Study the following information carefully and answer the question given below:

Six members of a family were born on the same date of the same month of different year. Their age are considered as on the same date and same month of 2021. R is 6 years older than S. Q is younger than U who is younger than S who is 4 years older than P. Age difference between P and U is 5 years. R was born in 1981. Q is 15 years old. Sum of the ages of P and T is equal to the age of R.

Q86. U was born in which of the following year?

(a) 1991

(b) 1986

(c) 2006

(d) 1996

(e) None of these

Q87. How many persons are older than Q?

(a) Two

(b) One

(c) More than three

(d) Three

(e) None of these

Q88.What is the age of S?

(a) 30 year

(b) 34 year

(c) 15 year

(d) 25 year

(e) None of these

Q89. What is the age difference between Q and U?
(a) 10 year
(b) 15 year
(c) 12 year
(d) 13 year
(e) None of these

Directions (90-92): These questions are based on the following information-
'A@B' means 'A is parent of B'
'A#B' means 'A is child of B'
'A$B' means 'A is brother of B'
'A%B' means 'A is husband of B'
'A&B' means 'A is wife of B'

Q90. If A&B$N#S&F@M is true, then how A is related to M?
(a) Sister
(b) Mother
(c) Daughter
(d) Sister-in-law
(e) Can't be determined

Q91. If P%Q@RST%U is true, then how P is related to U?
(a) Father
(b) Father-in-law
(c) Brother
(d) Brother-in-law
(e) Can't be determined

Q92. In which of the following relation shows "F is the father of G" is true?
(a) F@D$G
(b) G#D%F
(c) G#D&F
(d) F@D&G
(e) None of these

Directions (93-96): Study the following information carefully and answer the questions given below.
Seven persons live on seven different floors of a building, such that ground floor is numbered as 1 and topmost floor is numbered as 7.
There are two persons live between D and C who lives on an even numbered floor. G lives just above the floor on which F lives. There are two floors between the floor on which F and A lives. A lives one of the above floor on which floor G lives. B lives one of the above floors on which E lives. E lives neither first nor fifth number floor.

Q93. Who among the following lives immediate above E's floor?
(a) A
(b) D
(c) B
(d) C
(e) None of these

Q94. Who among the following lives on 3rd floor?
(a) G
(b) F
(c) A
(d) E
(e) None of these

Q95. How many persons live between E and F?
(a) Four
(b) One
(c) Two
(d) Three
(e) None of these

Q96. Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?
(a) B
(b) F
(c) A
(d) D
(e) G

Q97. If in the given number 42736895, 1 is added to second, fourth, sixth and eighth digit and 1 is subtracted from the first, third, fifth and seventh digits, then all digits are arranged in ascending order. Which of the following digit is fourth from the right?
(a) 3
(b) 6
(c) 5
(d) 4
(e) None of these

Directions (98-100): Study the following information carefully and answer the given questions.
Amongst Six friends, A, B, C, D, E and F, each of them has different weight. D's weight is an odd number. D is heavier than E but not the heaviest person. C is heavier than F but lighter than D. C is not heavier than E. C is heavier than F and A. A's weight is not an odd number. The lightest one weight is 55kg and the heaviest one weight is 90kg.

Q98. Who among the following is lightest person?
(a) F
(b) D
(c) A
(d) B
(e) C

Q99. Who among the following is the third heaviest person in the group?
(a) A
(b) C
(c) B
(d) E
(e) Either A or E

Q100. If C's weight is 64kg then what is possible weight of D?
(a) 70kg
(b) 60kg
(c) 68kg
(d) 93kg
(e) 65kg

Solutions

S1. Ans.(e)
Sol. Among the given options, both (a) and (c) are correct with reference to the context of the given questions. While option (b) is incoherent. Hence, option (e) is the right answer choice.
Refer to the last lines of the first paragraph, *"Our results emphasize the strong effects that a rat eradication can have on tree recruitment with expected long-term effects on canopy composition. Eradication, nevertheless, greatly benefitted the recruitment of native tree species. If this pattern persists over time, we expect long-term benefits for flora and fauna dependent on these native species."*

S2. Ans.(a)
Sol. Among the given options, all statements except option (a) are correct. Option (a) is incorrect because non-native rodents have invaded about 80% of the world's island groups. Hence, option (a) is the right answer choice.
Refer to the last line of the first paragraph, *"Non-native rodents have invaded about 80% of the world's island groups, posing a severe threat to native insular biodiversity. Invasive rats are omnivores with a range of direct and indirect impacts on island communities."*

S3. Ans.(d)
Sol. Among the given options, only (b) and (c) are correct with reference to the context of the given question. While statement (a) is incoherent as invasive rats also consume seeds and seedlings along with adult plants. Hence, option (d) is the right answer choice.
Refer to the third line of the second paragraph, *"In addition, as omnivores, non-native, invasive rats also consume seeds, seedlings, and adult plants, leading to changes in the abundance, composition, and structure of plant communities, including the extinction of some endemic island plant species."*

S4. Ans.(c)
Sol. Among the given options, statement (c) is correct with reference to the context of the given question. Hence, option (c) is the right answer choice.
Refer to the starting lines of the fourth paragraph, *"Rattus is known to have a particular preference for seeds of P. grandis, an ecologically important native tree that provides a nesting habitat for many seabird species as well as important habitat for geckos and insects. Due to a combination of rat and land crab predation, recruitment and establishment of P. grandis from seed on Palmyra Atoll was very limited in the presence of rats."*

S5. Ans.(e)
Sol. On reading the fourth paragraph thoroughly, we can infer that all of the given statements are correct with reference to the context of the given question. Hence, option (e) is the right answer choice.

S6. Ans.(d)
Sol. On reading the starting lines of the second paragraph, we can infer that all of the given statements are correct with reference to the context of the given question. Hence, option (d) is the right answer choice.

Refer to the starting lines of the second paragraph, *"As predators of animals, they have caused the extinction of numerous animal species in insular communities, including reptiles, seabirds, landbirds and invertebrates, with many additional indirect impacts, such as effects to nutrient subsidies supplied by these animals."*

S7. Ans.(e)
Sol. All of the given options are correct with reference to the context of the given question. Hence, option (e) is the right answer choice.
Refer to the mid-lines of the second paragraph, *"In addition, as omnivores, non-native, invasive rats also consume seeds, seedlings, and adult plants, leading to changes in the abundance, composition, and structure of plant communities, including the extinction of some endemic island plant species. Invasive rat eradication on islands is an established conservation tool that has been shown to benefit native biodiversity and human well-being."*

S8. Ans.(c)
Sol. The concerned sentence states that only a few studies–all from temperate New Zealand–have investigated the effect of rat removal on seedling recruitment. Thus, we can infer that among the given words, 'examined' is the most appropriate word to fill in the given blank. Hence, option (c) is the right answer choice.
(a) Displaced- taken over the place, position, or role of.
(b) Aborted- brought to a premature end because of a problem or fault.
(c) Examined- inspected (someone or something) thoroughly in order to determine their nature or condition.
(d) Suspended- to stop something from being active.
(e) Thrived- to grow, develop, or be successful.

S9. Ans.(d)
Sol. Among the given words, 'intruder' is the most appropriate synonym of the highlighted word. Hence, option (d) is the right answer choice. The word 'interloper' means a person who involved in a place or situation where they are not wanted or are considered not to belong.
(a) Prorogue- discontinue a session of (a parliament or other legislative assembly) without dissolving it.
(b) Abeyance- a state of temporary disuse or suspension.
(c) Emergence- the process of becoming visible after being concealed.
(d) Intruder- a person who intrudes, especially into a building with criminal intent.
(e) Termination- end in time or existence.

S10. Ans.(b)
Sol. Among the given words, 'focused' is the most appropriate synonym of the highlighted word. Hence, option (b) is the right answer choice. The word 'concentration' means the action or power of focusing all one's attention.
(a) Collection- a group of things or people.
(b) Focused- pay particular attention to.
(c) Dilution- the action of making something weaker in force, content, or value.
(d) Clusters- a group of similar things or people positioned or occurring closely together.
(e) Gathering- an assembly or meeting, especially one held for a specific purpose.

S11. Ans.(a)
Sol. Among the given options, the correct rearrangement of the highlighted words will be CBA. Hence, option (a) is the right answer choice.
The sentence thus formed would be *"Wisdom lies in learning from the past, being smart and resilient in the present and securing our prosperity in the future."*

S12. Ans.(b)
Sol. Among the given options, the correct rearrangement of the highlighted words will be BAC. Hence, option (b) is the right answer choice.
The sentence thus formed would be *"It is common sense that no country will allow the import of Indian goods and services unless that country is able to export its goods and services to India on reasonable and fair terms."*

S13. Ans.(d)
Sol. Among the given options, the correct rearrangement of the highlighted words will be ACB. Hence, option (d) is the right answer choice.
The sentence thus formed would be *"We must re-learn to engage with other countries and negotiate favourable trade agreements through the bilateral and multilateral routes."*

S14. Ans.(c)
Sol. Among the given options, the correct rearrangement of the highlighted words will be CBA. Hence, option (c) is the right answer choice.
The sentence thus formed would be *"With the introduction of economic reforms concretely since 1991, employers and the global financial institutions have been lobbying for labour market and structural reforms."*

S15. Ans.(b)
Sol. Among the given options, the correct rearrangement of the highlighted words will be CBA. Hence, option (b) is the right answer choice.
The sentence thus formed would be *"Some parents have witnessed the pandemic period as an opportunity to enroll their children in such online classes where they can gather new skills or deepen their learning."*

S16. Ans.(c)
Sol. Among the given options, the word 'lashed' will replace the highlighted word in the given sentence to make the statement grammatically and contextually correct. Hence, option (c) is the right answer choice. The word 'carved' means to be cut or engraved to produce an object, design, or inscription. While the word 'lashed' means to hit someone or something with a lot of force.
(a) mashed- to reduce to a soft, pulpy mass, as by beating or pressure.
(b) paved- (of a piece of ground) covered with flat stones or bricks; laid with paving.
(d) graced- to bring honour or credit to (someone or something) by one's attendance.

S17. Ans.(e)
Sol. The highlighted word 'perturbed' which means 'feeling anxiety or concern; unsettled' has been used correctly in the given sentence. Thus, no replacement is required. Hence, option (e) is the right answer choice.

(a) composed- having one's feelings and expression under control; calm.
(b) purveyed- to spread or promote (an idea, view, etc.).
(c) furnished- to provide with what is needed especially.
(d) equanimous- calm and composed.

S18. Ans.(b)
Sol. Among the given options, the word 'evolve' will replace the highlighted word in the given sentence to make the statement grammatically and contextually correct. Hence, option (b) is the right answer choice. The word 'attenuate' means to reduce the force, effect, or value of. While the word 'evolve' means to develop gradually.
(a) coercive- relating to or using force or threats.
(c) smash- violently break (something) into pieces.
(d) enervate- lacking in energy or vitality.

S19. Ans.(e)
Sol. The highlighted word 'averse' which means 'having a strong dislike of or opposition to something' has been used correctly in the given sentence. Thus, no replacement is required. Hence, option (e) is the right answer choice.
(a) frugal- simple and plain and costing little.
(b) cautious- careful to avoid potential problems or dangers.
(c) sparing- moderate; economical.
(d) prudent- acting with or showing care and thought for the future.

S20. Ans.(c)
Sol. The concerned sentence states that the Samyukt Kisan Morcha wrote an open letter to Prime Minister Narendra Modi in response to his decision to repeal three controversial farm legislation, demanding a legal guarantee of a remunerative Minimum Support Price (MSP). Thus, we can infer that 'contentious' is the most appropriate word to fill in the given blank. Hence, option (c) is the right answer choice.
(a) sagacious- having or showing keen mental discernment and good judgment; wise or shrewd.
(b) percipient- having good insight or understanding; perceptive.
(c) contentious- causing or likely to cause an argument; controversial.
(d) discerning- having or showing good judgment.
(e) absconding- leave hurriedly and secretly, typically to escape from custody or avoid arrest.

S21. Ans.(b)
Sol. The concerned sentence states that the Samyukt Kisan Morcha, the umbrella body of farmer unions that is leading the protest, has responded to Prime Minister Narendra Modi's intention to roll back three controversial farm laws. Thus, we can infer that 'agitation' is the most appropriate word to fill in the given blank. Hence, option (b) is the right answer choice.
(a) mitigation- the action of reducing the severity, seriousness, or painfulness of something.
(b) agitation- the situation in which people protest or argue.
(c) legislation- the process of making or enacting laws.
(d) alleviation- the action or process of making suffering, deficiency, or a problem less severe.
(e) diminution- a reduction in the size, extent, or importance of something.

S22. Ans.(b)

Sol. The concerned sentence states that the Samyukt Kisan Morcha wrote an open letter to Prime Minister Narendra Modi in response to his decision to repeal three controversial farm legislation, demanding a legal guarantee of a remunerative Minimum Support Price (MSP). Thus, we can infer that 'demanding' is the most appropriate word to fill in the given blank. Hence, option (b) is the right answer choice.

(a) hampering- hinder or impede the movement or progress of.
(b) demanding- needing much attention and not easily satisfied.
(c) provoking- causing annoyance; irritating.
(d) restraining- intended to keep someone under control or prevent someone from doing something.
(e) cumbering- to hamper or hinder.

S23. Ans.(d)

Sol. The concerned sentence states that in response to Prime Minister Narendra Modi's decision to repeal three controversial farm laws, the Samyukt Kisan Morcha wrote an open letter to him, demanding a legal guarantee of a remunerative Minimum Support Price (MSP) and expressing the hope that farmer leaders would be invited for a discussion. Thus, we can infer that 'enunciating' is the most appropriate word to fill in the given blank. Hence, option (d) is the right answer choice.

(a) concealing- to prevent (something) from being known; keep secret.
(b) intricating- very complicated or detailed.
(c) revealing- making interesting or significant information known, especially of a personal nature.
(d) enunciating- express (a proposition, theory, etc.) in clear or definite terms.
(e) betraying- expose to danger by treacherously giving information to an enemy.

S24. Ans.(c)

Sol. The concerned sentence states that the letter further demanded the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, to be repealed, as well as the dismissal of lawsuits against thousands of farmers who were implicated during the protests against farm laws. Thus, we can infer that 'provisions' is the most appropriate word to fill in the given blank. Hence, option (c) is the right answer choice.

(a) manifest- clear or obvious to the eye or mind.
(b) broadcast- transmit (a program or some information) by radio or television.
(c) provisions- statements within an agreement or a law that a particular thing must happen.
(d) mitigation- the action of reducing the severity, seriousness, or painfulness of something.
(e) propound- put forward (an idea or theory) for consideration by others.

S25. Ans.(a)

Sol. The concerned sentence states that the letter further demanded the Commission for Air Quality Management in the National Capital Region and Adjoining Areas Act, 2021, to be repealed, as well as the dismissal of lawsuits against thousands of farmers who were implicated during the protests against farm laws. Thus, we can infer that 'implicated' is the most appropriate word to fill in the given blank. Hence, option (a) is the right answer choice.

(a) implicated- show (someone) to be involved in a crime.
(b) acquitted- free (someone) from a criminal charge by a verdict of not guilty.
(c) exonerated- release someone from (a duty or obligation).
(d) denounced- publicly declared to be wrong or evil.
(e) exculpated- show or declare that (someone) is not guilty of wrongdoing.

S26. Ans.(e)
Sol. There is no error in any part of the given sentence. Hence, option (e) is the right answer choice.

S27. Ans.(b)
Sol. The error lies in part (B) of the sentence. Here, 'was' will be replaced by 'were' as the noun phrase 'the daily routines' is given in the plural form. Hence, option (b) is the right answer choice.

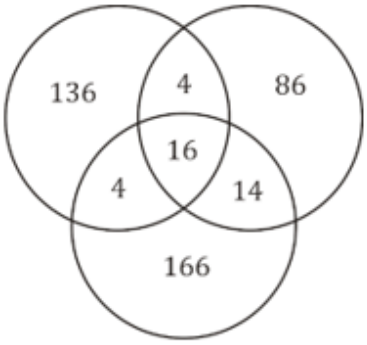
S28. Ans.(b)
Sol. The error lies in part (B) of the sentence. Here, 'for' will be replaced by 'in' to make the sentence grammatically correct and contextually meaningful. Hence, option (b) is the right answer choice.

S29. Ans.(c)
Sol. The error lies in part (C) of the sentence. Here, 'will taken up' should be replaced with 'will be taken up' to make the sentence grammatically correct and contextually meaningful. Hence, option (c) is the right answer choice.

S30. Ans.(e)
Sol. There is no error in any part of the given sentence. Hence, option (e) is the right answer choice.

S31. Ans.(b)
Sol.
Players who play tennis = 160
Players who play all three games = $160\times\frac{10}{100}=16$
Let players who play cricket & chess be 3x & 5x respectively.
ATQ,
$8x=160\times2=320$
$x=40$
∴ Cricket players=120
And chess players=200
Players who play both tennis and chess = $\frac{1}{8}\times 160 = 20$
Let players who play both tennis and cricket and players who play both chess and cricket be 2y & 3y respectively.
ATQ,
$5y=50 \Rightarrow y=10$
Total no. of players = 136+166+86+4+4+14+16 = 426

Tennis=160 cricket=120



Chess = 200

Required average $= \frac{136+166+86}{3}$

$= \frac{388}{3} = 129\frac{1}{3}$

S32. Ans.(d)

Sol.

Players who play tennis = 160

Players who play all three games = $160 \times \frac{10}{100} = 16$

Let players who play cricket & chess be 3x & 5x respectively.

ATQ,

$8x = 160 \times 2 = 320$

$x = 40$

∴ Cricket players=120

And chess players=200

Players who play both tennis and chess $= \frac{1}{8} \times 160 = 20$

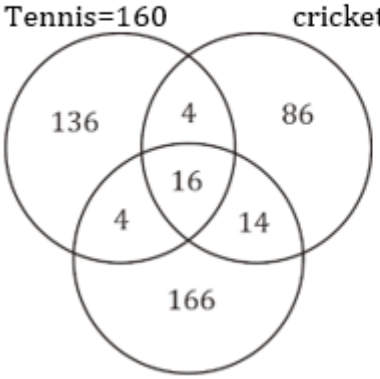
Let players who play both tennis and cricket and players who play both chess and cricket be 2y & 3y respectively.

ATQ,

$5y = 50 \Rightarrow y = 10$

Total no. of players = 136+166+86+4+4+14+16 = 426

Tennis=160 cricket=120



Chess = 200

Required percentage $= \frac{170}{426} \times 100$

$\simeq 40\%$

S33. Ans.(c)

Sol.

Players who play tennis = 160

Players who play all three games = $160\times\frac{10}{100}=16$

Let players who play cricket & chess be 3x & 5x respectively.

ATQ,

$8x=160\times2=320$

$x=40$

∴ Cricket players=120

And chess players=200

Players who play both tennis and chess = $\frac{1}{8}\times 160 = 20$

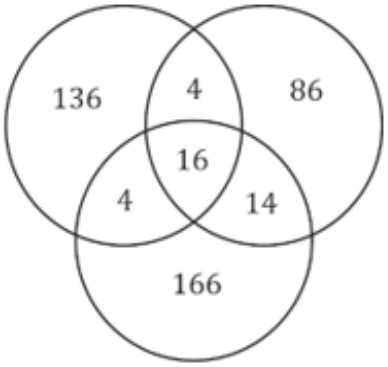
Let players who play both tennis and cricket and players who play both chess and cricket be 2y & 3y respectively.

ATQ,

$5y=50 \Rightarrow y=10$

Total no. of players = 136+166+86+4+4+14+16 = 426

Tennis=160 cricket=120



Chess = 200

Required ratio = $\frac{20}{86} = 10:43$

S34. Ans.(e)

Sol.

Players who play tennis = 160

Players who play all three games = $160\times\frac{10}{100}=16$

Let players who play cricket & chess be 3x & 5x respectively.

ATQ,

$8x=160\times2=320$

$x=40$

∴ Cricket players=120

And chess players=200

Players who play both tennis and chess = $\frac{1}{8}\times 160 = 20$

Let players who play both tennis and cricket and players

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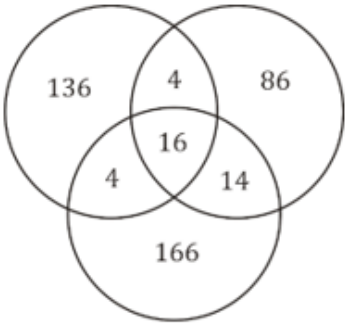
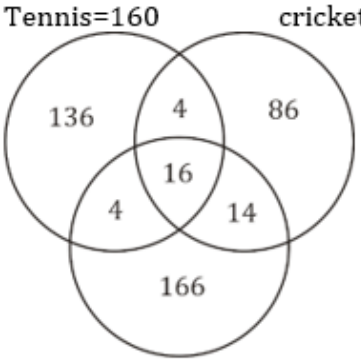


Chess = 200
Required percentage $=\frac{(4+4+16+14)}{426-16} \times 100$
$=\frac{3800}{410} = 9\%$

S35. Ans.(a).
Sol.
Players who play tennis = 160
Players who play all three games = $160\times\frac{10}{100}=16$
Let players who play cricket & chess be 3x & 5x respectively.
ATQ,
8x=160×2=320
x=40
∴ Cricket players=120
And chess players=200
Players who play both tennis and chess = $\frac{1}{8} \times 160 = 20$
Let players who play both tennis and cricket and players who play both chess and cricket be 2y & 3y respectively.
ATQ,
5y=50 ⇒ y=10
Total no. of players = 136+166+86+4+4+14+16 = 426

Tennis=160 cricket=120



Chess = 200
Required difference =160−86
=74

S36. Ans.(e)

Sol.

Amount by Abhishek to the bank $= 1{,}20{,}000 \times (1 + \frac{8}{100})^2$

$= 1{,}20{,}000 \times \frac{27}{25} \times \frac{27}{25} = Rs.\,1{,}39{,}968$

Amount he got from scheme after 2 years $= 120000 \times \frac{3}{4} \times \frac{110}{100} \times \frac{110}{100}$

$= Rs.\,1{,}08{,}900$

Total amount of Abhishek $= 1{,}08{,}900 + 30{,}000 = Rs.\,1{,}38{,}900$

So, required amount $= 1{,}39{,}968 - 138900 = Rs.\,1068\ (loss)$

S37. Ans.(c)

Sol.

Let investment of Deepak be Rs. 4x.

Investment of Dev $= 4x \times \frac{125}{100} = 5x$

Let time of investment of Deepak is T months.

Time of investment for Dev $= T - 4$

ATQ

Ratio of profit share of Dev and Deepak =

$\Rightarrow \frac{5x \times (T-4)}{4x \times T} = \frac{3000}{4000}$

$\Rightarrow 5T - 20 = 3T$

$\Rightarrow T = 10$

So, time of investment of Dev $= T - 4 = 6\ months$

S38. Ans.(d)

Sol.

Cost price of chair $= 480 \times \frac{100}{75} = Rs.\,640$

Cost price of table $= 480 \times \frac{100}{160} = Rs.\,300$

So, required difference $= 640 - 300 = Rs.\,340$

S39. Ans.(c)

Sol.

Quantity of alcohol in initial mixture $= 70 - S$

ATQ

$\frac{70-S}{S+0.5} = \frac{8}{9}$

$630 - 9S = 12S$

$S = 30$

So, final quantity $= 70 + 0.5S = 70 + 15 = 85\ kg$

S40. Ans.(b)
Sol.
Ratio of speed of boat in still water to speed of stream = 100% : 40% = 5 : 2
Let the speed of boat in still water and speed of stream be 5s km/hr and 2s km/hr respectively
Downstream speed of boat = $22.4 \times \frac{60}{48} = 28$ km/hr
ATQ –
(5s + 2s) = 28
s = 4 km/hr
So, Upstream speed of boat = $(5\times 4 - 2 \times 4) = 12$ km/hr
Required ratio = $\frac{\frac{54}{13}}{\frac{210}{28}} = 3 : 5$

S41. Ans.(b)
Sol.
Total brown bread packets sold by B and C $= 140 \times \frac{5}{14} + 180 \times \frac{5}{9}$
$= 50 + 100 = 150$
Total white bread packets sold by A and D$= 135 \times \frac{5}{9} + 160 \times \frac{13}{32}$
$= 75 + 65 = 140$
So, required ratio $= 150: 140 = 15: 14$

S42. Ans.(d)
Sol.
Average number of white bread packets sold by B, C & E
$= \frac{1}{3} \times \left(140 \times \frac{9}{14} + 180 \times \frac{4}{9} + 150 \times \frac{7}{15}\right)$
$= \frac{1}{3} \times (90 + 80 + 70) = 80$
Average number of brown bread packets old by A, C and D
$= \frac{1}{3} \times \left(135 \times \frac{4}{9} + 180 \times \frac{5}{9} + 160 \times \frac{19}{32}\right)$
$= \frac{1}{3} \times (60 + 100 + 95) = 85$
So, required difference $= 85 - 80 = 5$

S43. Ans.(a)
Sol.
Total white bread packets shopkeeper B had $= 140 \times \frac{9}{14} \times \frac{100}{30} = 300$
Total white bread packets shopkeeper A had$= 135 \times \frac{5}{9} \times \frac{100}{25} = 300$
So, required percentage $= \frac{300}{300} \times 100 = 100\%$

S44. Ans.(d)

Sol.

Total white bread packets of harvest brand sold by D $= 160 \times \frac{13}{32} \times \frac{5}{13} = 25$

Total brown bread packets of harvest brand sold by D $= 160 \times \frac{19}{32} \times \frac{6}{19} = 30$

So, total number of good day brand of bread sold by D$= 160 - (25 + 30) = 105$

S45. Ans.(c)

Sol.

Total number of white breads packets sold by A on Tuesday$= \frac{6}{5} \times 135 \times \frac{5}{9} = 90$

Total number of white breads packets sold by C on Tuesday $= \frac{5}{4} \times 180 \times \frac{4}{9} = 100$

So, required percentage $= \frac{100-90}{100} \times 100 = 10\%$ (less)

S46. Ans.(e)

Sol.

Let total amount be Rs. X

Amount received by Deepak $= \left(X \times \frac{40}{100} + 40\right) = Rs.(0.4X + 40)$

Amount received by Shivam $= \left(X \times \frac{25}{100} + 5\right) = Rs.(0.25X + 5)$

And, amount received by Prashant $= \left(X \times \frac{32}{100}\right) = Rs.0.32X$

ATQ,

$0.4X + 40 + 0.25X + 5 + 0.32X = X$

$X = 1500$ Rs.

Hence, amount received by Shivam $= (0.25X + 5) =$ Rs.380

S47. Ans.(b)

Sol.

Let efficiency of a man & a woman be m units/day & w units/day respectively.

ATQ,

$14 \times m \times 18 = 21 \times w \times 20$

$\frac{m}{w} = \frac{5}{3}$

Let m & w be 5a & 3a respectively.

Hence, total work $= 14 \times 5a \times 18$

$= 1260a$ units

So, efficiency of a child $= \frac{80}{100} \times 5a$

$= 4a$ units/day

Hence, required time $= \frac{1260a}{4a \times 15}$

$= 21$ days

S48. Ans.(a)

Sol.

Let radius of circular field be 'r'

ATQ –

$2 \times \pi \times r = 264$

r = $\frac{264 \times 7}{22 \times 2}$ = 42 meters

Length of rectangular field = $42 \times 2 = 84\ meters$

Let breadth of rectangular field be 'b'

$84 \times b = 2016$

b = 24 meters

Required percentage = $\frac{42-24}{24} \times 100 = 75\%$

S49. Ans.(a)

Sol.

Let the age of Tanya, Himanshi and shukhdeep be 5x, 8x & 8x+6 respectively.

Total age of Tanya, Himanshi and shukhdeep = $51 \times 3 = 153\ years$

ATQ.

$5x + 8x + 8x + 6 = 153$

$x = 7$

Age of Shukhdeep 5 years ago = $8x + 6 - 5 = 8 \times 7 + 1 = 57\ years$

S50. Ans.(e)

Sol.

Let speed of train A and train B be x and y respectively and length of train B be 5a respectively.

Length of train A = $6a$

ATQ

$\frac{5a+6a}{x+y} = 13.2$

$11a = 13.2(x + y)$ ....(i)

And, $\frac{5a+6a}{x-y} = 66$

$11a = 66(x - y)$ ...(ii)

From (i) and (ii)

$13.2(x + y) = 66(x - y)$

$x + y = 5x - 5y$

$\frac{x}{y} = \frac{3}{2}$

S51. Ans.(a)

Sol.

Patter of series –

$18 + 1^2 = 19$

$19 - 2^2 = 15$

$15 + 3^2 = 24$

$24 - 4^2 = 8$

$8 + 5^2 = 33$

S52. Ans.(c)
Sol.
Patter of series –
$72 \times 0.5 = 36$
$36 \times 1.5 = 54$
$54 \times 2.5 = 135$
$135 \times 3.5 = 472.5$
$472.5 \times 4.5 = 2126.25$

S53. Ans.(e)
Sol.
Patter of series –
$226 - 5^3 = 101$
$101 - 4^3 = 37$
$37 - 3^3 = 10$
$10 - 2^3 = 2$
$2 - 1^3 = 1$

S54. Ans.(b)
Sol.
Patter of series –
$10^2 + 1 = 101$
$11^2 - 1 = 120$
$12^2 + 1 = 145$
$13^2 - 1 = 168$
$14^2 + 1 = 197$
$15^2 - 1 = 224$

S55. Ans.(d)
Sol.
Patter of series –
$144 + 11 = 155$
$155 + 13 = 168$
$168 + 17 = 185$
$185 + 19 = 204$
$204 + 23 = 227$

S56. Ans.(a)
Sol.
I. $2x^2 - 13x + 20 = 0$
$2x^2 - 8x - 5x + 20 = 0$
$2x(x - 4) - 5(x - 4) = 0$
$(2x - 5)(x - 4) = 0$
$x = \frac{5}{2}, 4$

II. $y^2 + 10y + 24 = 0$
$y^2 + 6y + 4y + 24 = 0$
$y(y + 6) + 4(y + 6) = 0$
$(y + 4)(y + 6) = 0$
$y = -4, -6$
So, x> y

S57. Ans.(b)
Sol.
I. $x^2 - 9x + 18 = 0$
$x^2 - 6x - 3x + 18 = 0$
$x(x - 6) - 3(x - 6) = 0$
$(x - 3)(x - 6) = 0$
$x = 3,6$
II. $2y^2 - 9y + 9 = 0$
$2y^2 - 6y - 3y + 9 = 0$
$2y(y - 3) - 3(y - 3) = 0$
$(2y - 3)(y - 3) = 0$
$y = \frac{3}{2}, 3$
So, x≥ y

S58. Ans.(e)
Sol.
I. $x^2 - 17x + 70 = 0$
$x^2 - 10x - 7x + 70 = 0$
$x(x - 10) - 7(x - 10) = 0$
$(x - 7)(x - 10) = 0$
$x = 7,10$
II. $y^2 - 14y + 48 = 0$
$y^2 - 6y - 8y + 48 = 0$
$y(y - 6) - 8(y - 6) = 0$
$(y - 8)(y - 6) = 0$
$y = 8,6$
So, no relation can be established between x and y.

S59. Ans.(e)
Sol.
I. $4x^2 + 3x - 10 = 0$
$4x^2 + 8x - 5x - 10 = 0$
$4x(x + 2) - 5(x + 2) = 0$
$(4x - 5)(x + 2) = 0$
$x = \frac{5}{4}, -2$
II. $y^2 + 10y - 119 = 0$
$y^2 + 17y - 7y - 119 = 0$
$y(y + 17) - 7(y + 17) = 0$
$(y - 7)(y + 17) = 0$
$y = 7, -17$
So, no relation can be established between x and y.

S60. Ans.(a)
Sol.

I. $x^2 - 11x + 28 = 0$
$x^2 - 7x - 4x + 28 = 0$
$x(x-7) - 4(x-7) = 0$
$(x-4)(x-7) = 0$
$x = 4,7$
II. $y^2 + 13y + 30 = 0$
$y^2 + 3y + 10y + 30 = 0$
$y(y+3) + 10(y+3) = 0$
$(y+10)(y+3) = 0$
$y = -10, -3$
So, x> y

S61. Ans.(d)
Sol.

Number of students in A $= \frac{108 \times 100}{360} = 30\%$

$$\frac{30}{100} \times 15000 = 4500$$

Number of girls in A = $4500 \times \frac{30}{100} = 1350$
Number of boys in A = 4500-1350= 3150
Similarly in school D number of students= $\frac{54 \times 100}{360} = 15\%$

$$= \frac{15}{100} \times 15000 = 2250$$

Number of girls in school D = $\frac{20}{100} \times 2250 = 450$
Number of boys in D = 2250-450= 1800
Total number of boys in A and D = 3150+1800= 4950

S62. Ans.(d)
Sol.

Students in A= $\frac{30}{100} \times 15000 = 4500$
Students in D= $\frac{15}{100} \times 15000 = 2250$
Student in E= $\frac{20}{100} \times 15000 = 3000$
Average= $\frac{4500+2250+3000}{3} = \frac{9750}{3} = 3250$

S63. Ans.(a)
Sol.

Student in B= $15000 \times \frac{10}{100} = 1500$ Fee in B = $1500 \times 50 = 75000$
Student in C= $15000 \times \frac{25}{100} = 3750$ Fee in C = $3750 \times 30 = 112500$
Student in D= $15000 \times \frac{15}{100} = 2250$ Fee in D = $2250 \times 40 = 90000$
Sum of total fee in school B, C and D= 277500

S64. Ans.(c)
Sol.

Student studying in A and D together = 4500+2250= 6750
Student studying in B and C together = 1500+3750= 5250
Difference = 6750-5250= 1500

S65. Ans.(e)
Sol.

Student studying in A = 4500
Students studying in C and D= 6000
Average of C and D $=\frac{6000}{2}$ = 3000
Difference= 4500-3000=1500

S66. Ans.(c)
Sol.

From the given statements, F lives east to A. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. Here we get 2 possible cases – Case 1 and Case 2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H			
4				
3	A	F	A	F
2				
1			H	

I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C, who lives in flat-1.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H		C	
4		I		
3	A	F	A	F
2				I
1	C		H	

B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H	B	C	B
4		I		D
3	A	F	A	F
2	J	D	J	I
1	C	G	H	G

Now, E does not live on same floor of D. By this condition Case-2 will be eliminated. So, the final arrangement will be-

Floors	Flat-1	Flat-2
5	H	B
4	E	I
3	A	F
2	J	D
1	C	G

S67. Ans.(a)

Sol.

From the given statements, F lives east to A. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. Here we get 2 possible cases – Case 1 and Case 2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H			
4				
3	A	F	A	F
2				
1			H	

I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C, who lives in flat-1.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H		C	
4		I		
3	A	F	A	F
2				I
1	C		H	

B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H	B	C	B
4		I		D
3	A	F	A	F
2	J	D	J	I
1	C	G	H	G

Now, E does not live on same floor of D. By this condition Case-2 will be eliminated. So, the final arrangement will be-

Floors	Flat-1	Flat-2
5	H	B
4	E	I
3	A	F
2	J	D
1	C	G

S68. Ans.(e)

Sol.

From the given statements, F lives east to A. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. Here we get 2 possible cases – Case 1 and Case 2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H			
4				
3	A	F	A	F
2				
1			H	

I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C, who lives in flat-1.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H		C	
4		I		
3	A	F	A	F
2				I
1	C		H	

B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H	B	C	B
4		I		D
3	A	F	A	F
2	J	D	J	I
1	C	G	H	G

Now, E does not live on same floor of D. By this condition Case-2 will be eliminated. So, the final arrangement will be-

Floors	Flat-1	Flat-2
5	H	B
4	E	I
3	A	F
2	J	D
1	C	G

S69. Ans.(d)

Sol.

From the given statements, F lives east to A. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. Here we get 2 possible cases – Case 1 and Case 2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H			
4				
3	A	F	A	F
2				
1			H	

I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C, who lives in flat-1.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H		C	
4		I		
3	A	F	A	F
2				I
1	C		H	

B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H	B	C	B
4		I		D
3	A	F	A	F
2	J	D	J	I
1	C	G	H	G

Now, E does not live on same floor of D. By this condition Case-2 will be eliminated. So, the final arrangement will be-

Floors	Flat-1	Flat-2
5	H	B
4	E	I
3	A	F
2	J	D
1	C	G

S70. Ans.(b)

Sol.

From the given statements, F lives east to A. As many floors are above A as below of F. One floor gap between floor of F and H, but flat number of both is different. Here we get 2 possible cases – Case 1 and Case 2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H			
4				
3	A	F	A	F
2				
1			H	

I lives on even numbered floor and even numbered flat. Two floors gap between floors of I and C, who lives in flat-1.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H		C	
4		I		
3	A	F	A	F
2				I
1	C		H	

B lives above I in odd numbered floor. Two floors gap between B and J who lives in odd numbered flat. D lives above G and both live in same numbered flat.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
5	H	B	C	B
4		I		D
3	A	F	A	F
2	J	D	J	I
1	C	G	H	G

Now, E does not live on same floor of D. By this condition Case-2 will be eliminated. So, the final arrangement will be-

Floors	Flat-1	Flat-2
5	H	B
4	E	I
3	A	F
2	J	D
1	C	G

S71. Ans.(b)
Sol.

Word	Code
We	Xf
Are	Bf
Welcome	Go
Great	Hu
Going	Hh
Cool	Dm
persons	Qt
Being	Ch

S72. Ans.(c)
Sol.

Word	Code
We	Xf
Are	Bf
Welcome	Go
Great	Hu
Going	Hh
Cool	Dm
persons	Qt
Being	Ch

S73. Ans.(d)
Sol.

Word	Code
We	Xf
Are	Bf
Welcome	Go
Great	Hu
Going	Hh
Cool	Dm
persons	Qt
Being	Ch

S74. Ans.(d)
Sol.

Word	Code
We	Xf
Are	Bf
Welcome	Go
Great	Hu
Going	Hh
Cool	Dm
persons	Qt
Being	Ch

S75. Ans.(a)
Sol.

Word	Code
We	Xf
Are	Bf
Welcome	Go
Great	Hu
Going	Hh
Cool	Dm
persons	Qt
Being	Ch

S76. Ans.(c)
Sol. Given word- BRIGHT
After rearrangement-**B**GHIR**T**

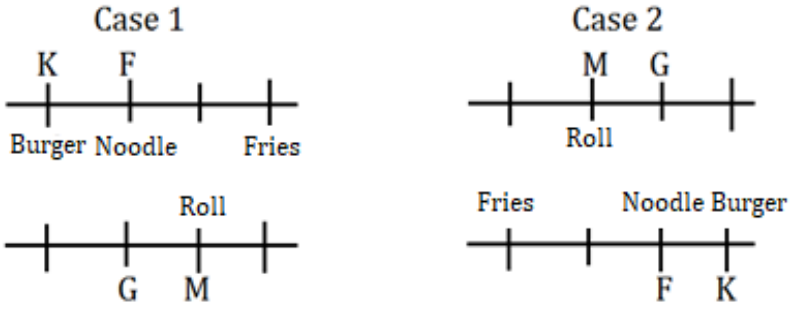
S77. Ans.(b)
Sol.

Days	Persons
Tuesday	S
Wednesday	A
Thursday	T
Friday	M
Saturday	Q

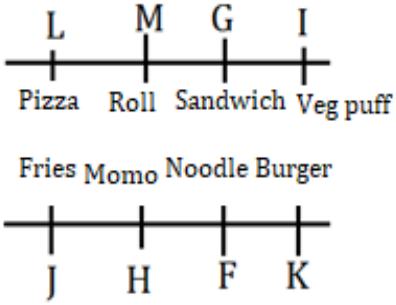
S78. Ans.(d)

Sol.

From the given statements, G faces the person who sits 2nd to the right of the person who likes Fries. F likes Noodle and faces G. F sits immediate left of the person who likes Burger. M likes Roll and faces the person who sits 2nd to the left of K. Here, we get two possibilities i.e., Case 1 and Case 2.



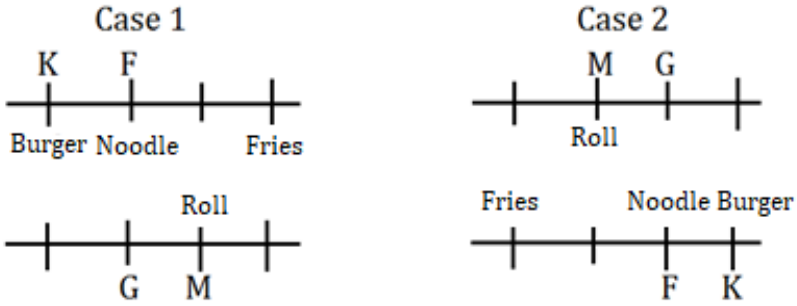
H sits immediate right of J who sits in row 1. Here, Case 1 is ruled out. I and J sit diagonally opposite to each other. The person who likes Sandwich sits immediate right of the person who likes Veg puff. H neither like Veg puff nor Pizza. So, the final arrangement will be: -



S79. Ans.(c)

Sol.

From the given statements, G faces the person who sits 2nd to the right of the person who likes Fries. F likes Noodle and faces G. F sits immediate left of the person who likes Burger. M likes Roll and faces the person who sits 2nd to the left of K. Here, we get two possibilities i.e., Case 1 and Case 2.



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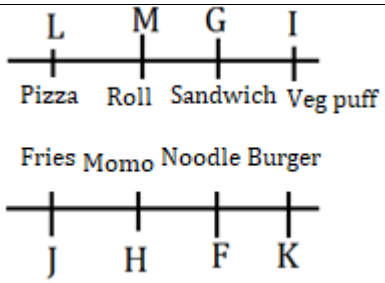
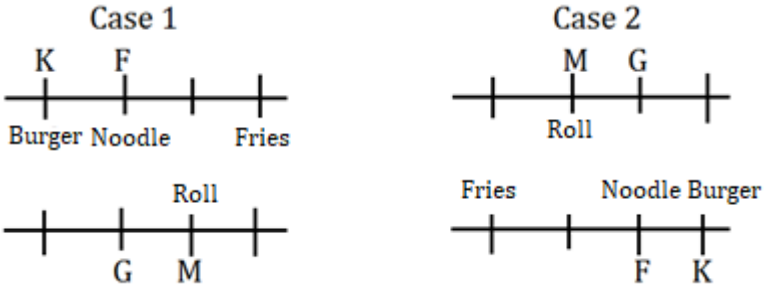


S80. Ans.(b)

Sol.

From the given statements, G faces the person who sits 2nd to the right of the person who likes Fries. F likes Noodle and faces G. F sits immediate left of the person who likes Burger. M likes Roll and faces the person who sits 2nd to the left of K. Here, we get two possibilities i.e., Case 1 and Case 2.



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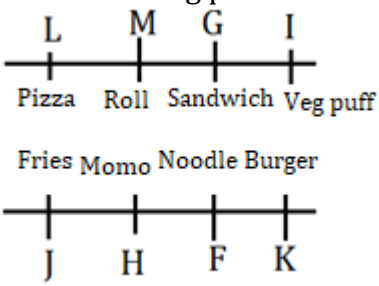
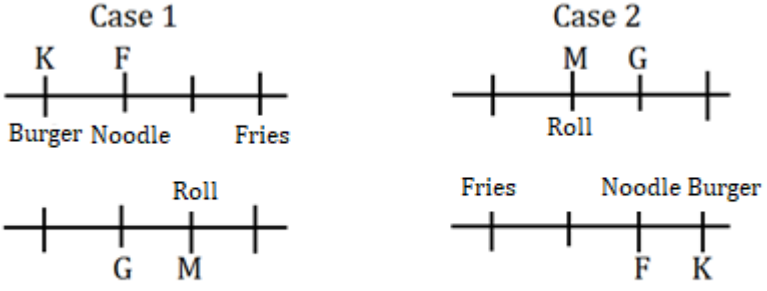


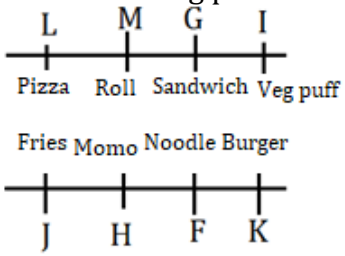
S81. Ans.(c)

Sol.

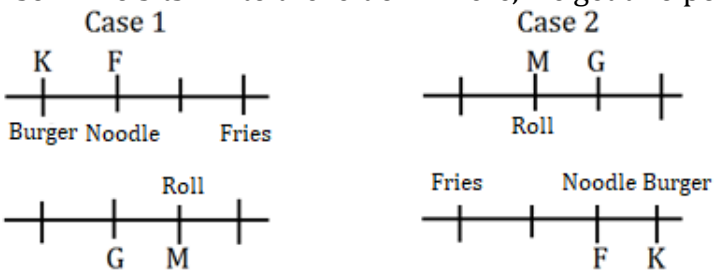
From the given statements, G faces the person who sits 2nd to the right of the person who likes Fries. F likes Noodle and faces G. F sits immediate left of the person who likes Burger. M likes Roll and faces the person who sits 2nd to the left of K. Here, we get two possibilities i.e., Case 1 and Case 2.



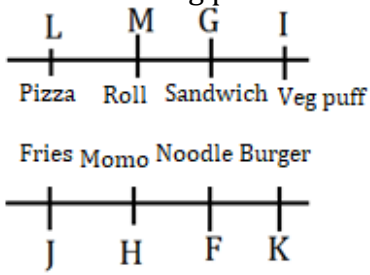
H sits immediate right of J who sits in row 1. Here, Case 1 is ruled out. I and J sit diagonally opposite to each other. The person who likes Sandwich sits immediate right of the person who likes Veg puff. H neither like Veg puff nor Pizza. So, the final arrangement will be: -



S82. Ans.(b)
Sol.
From the given statements, G faces the person who sits 2nd to the right of the person who likes Fries. F likes Noodle and faces G. F sits immediate left of the person who likes Burger. M likes Roll and faces the person who sits 2nd to the left of K. Here, we get two possibilities i.e., Case 1 and Case 2.



H sits immediate right of J who sits in row 1. Here, Case 1 is ruled out. I and J sit diagonally opposite to each other. The person who likes Sandwich sits immediate right of the person who likes Veg puff. H neither like Veg puff nor Pizza. So, the final arrangement will be: -



S83. Ans.(a)
Sol.
I. P5 > P2 (True)
II. P6 > P3 (False)

S84. Ans.(e)
Sol.
I. G < P (True)
II. G < J (True)

S85. Ans.(b)
Sol.
I. E ≥ S (False)
II. S ≤ N (True)

S86. Ans.(d)

Sol. R was born in 1981. R is 6 years older than S. So, S was born in 1987. S is 4 years older than P. Hence P was born in 1991. Age difference between P and U is 5 years. There are two possibilities. U was either born in 1996 or 1986.

Persons	Case-1	Case-2
	Years	Years
P	1991	1991
R	1981	1981
S	1987	1987
U	1996	1986

Q is 15 years old. So, Q was born in 2006. Sum of the ages of P and T is equal to the age of R. Hence T was born in 2011. Q is younger than U who is younger than S. Hence case-2 will be eliminated and the final arrangement is-

Persons	Years
P	1991(30)
Q	2006(15)
R	1981(40)
S	1987(34)
T	2011(10)
U	1996(25)

S87. Ans.(c)

Sol. R was born in 1981. R is 6 years older than S. So, S was born in 1987. S is 4 years older than P. Hence P was born in 1991. Age difference between P and U is 5 years. There are two possibilities. U was either born in 1996 or 1986.

Persons	Case-1	Case-2
	Years	Years
P	1991	1991
R	1981	1981
S	1987	1987
U	1996	1986

Q is 15 years old. So, Q was born in 2006. Sum of the ages of P and T is equal to the age of R. Hence T was born in 2011. Q is younger than U who is younger than S. Hence case-2 will be eliminated and the final arrangement is-

Persons	Years
P	1991(30)
Q	2006(15)
R	1981(40)
S	1987(34)
T	2011(10)
U	1996(25)

S88. Ans.(b)

Sol. R was born in 1981. R is 6 years older than S. So, S was born in 1987. S is 4 years older than P. Hence P was born in 1991. Age difference between P and U is 5 years. There are two possibilities. U was either born in 1996 or 1986.

Persons	Case-1	Case-2
	Years	Years
P	1991	1991
R	1981	1981
S	1987	1987
U	1996	1986

Q is 15 years old. So, Q was born in 2006. Sum of the ages of P and T is equal to the age of R. Hence T was born in 2011. Q is younger than U who is younger than S. Hence case-2 will be eliminated and the final arrangement is-

Persons	Years
P	1991(30)
Q	2006(15)
R	1981(40)
S	1987(34)
T	2011(10)
U	1996(25)

S89. Ans.(a)

Sol. R was born in 1981. R is 6 years older than S. So, S was born in 1987. S is 4 years older than P. Hence P was born in 1991. Age difference between P and U is 5 years. There are two possibilities. U was either born in 1996 or 1986.

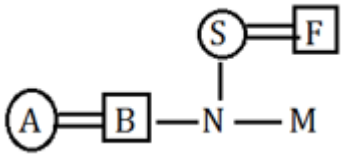
Persons	Case-1	Case-2
	Years	Years
P	1991	1991
R	1981	1981
S	1987	1987
U	1996	1986

Q is 15 years old. So, Q was born in 2006. Sum of the ages of P and T is equal to the age of R. Hence T was born in 2011. Q is younger than U who is younger than S. Hence case-2 will be eliminated and the final arrangement is-

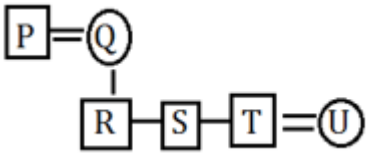
Persons	Years
P	1991(30)
Q	2006(15)
R	1981(40)
S	1987(34)
T	2011(10)
U	1996(25)

S90. Ans.(d)

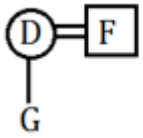
Sol.



S91. Ans.(b)
Sol.



S92. Ans.(c)
Sol.



S93. Ans.(c)
Sol.
From the given information, there are two persons live between D and C who lives on an even numbered floor. There are three possibilities-

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
7		D/	
6			C
5	D/		
4		C	
3			D
2	C		
1		D/	

G lives just above the floor on which F lives. There are two floors between the floor on which F and A lives. A lives one of the above floor on which floor G lives. B lives one of the above floor on which E lives. E lives neither first nor fifth number floor. From these conditions case-1 and case-3 will be eliminated. The final arrangement is-

Floor	Persons
7	B
6	E
5	A
4	C
3	G
2	F
1	D

S94. Ans.(a)

Sol.

From the given information, there are two persons live between D and C who lives on an even numbered floor. There are three possibilities-

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
7		D/	
6			C
5	D/		
4		C	
3			D
2	C		
1		D/	

G lives just above the floor on which F lives. There are two floors between the floor on which F and A lives. A lives one of the above floor on which floor G lives. B lives one of the above floor on which E lives. E lives neither first nor fifth number floor. From these conditions case-1 and case-3 will be eliminated. The final arrangement is-

Floor	Persons
7	B
6	E
5	A
4	C
3	G
2	F
1	D

S95. Ans.(d)

Sol.

From the given information, there are two persons live between D and C who lives on an even numbered floor. There are three possibilities-

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
7		D/	
6			C
5	D/		
4		C	
3			D
2	C		
1		D/	

G lives just above the floor on which F lives. There are two floors between the floor on which F and A lives. A lives one of the above floor on which floor G lives. B lives one of the above floor on which E lives. E lives neither first nor fifth number floor. From these conditions case-1 and case-3 will be eliminated. The final arrangement is-

Floor	Persons
7	B
6	E
5	A
4	C
3	G
2	F
1	D

S96. Ans.(b)

Sol.

From the given information, there are two persons live between D and C who lives on an even numbered floor. There are three possibilities-

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
7		D/	
6			C
5	D/		
4		C	
3			D
2	C		
1		D/	

G lives just above the floor on which F lives. There are two floors between the floor on which F and A lives. A lives one of the above floor on which floor G lives. B lives one of the above floor on which E lives. E lives neither first nor fifth number floor. From these conditions case-1 and case-3 will be eliminated. The final arrangement is-

Floor	Persons
7	B
6	E
5	A
4	C
3	G
2	F
1	D

S97. Ans.(b)
Sol. Given number-42736895
After applied given condition- 33645986
Arranged in ascending order- 33456689

S98. Ans.(a)
Sol. B(90kg)>D>E>C>A>F(55kg)

S99. Ans.(d)
Sol. B(90kg)>D>E>C>A>F(55kg)

S100. Ans.(e)
Sol. B(90kg)>D>E>C>A>F(55kg)