IBPS PO Pre 2022 (16th October) Shift-Wise Previous Year Papers Mock 05

Directions (1-9) : Read the following passage carefully and answer the questions given below it. Certain words have been given in bold to help you locate them, while answering some of the questions.

The Fed has raised its benchmark interest rate again by a whopping 0.75%. The Reserve Bank of India has also been forced to raise interest rates further but also take other steps. These decisions in the Monetary Policy Committee (MPC) meeting are based on what the members of the MPC see as the likely course of the economy in the months ahead. But, the trajectory of the world economy, and its likely impact on the Indian economy, is imponderable. So, Indian policymakers would face two crucial problems. First, the main uncertainty is due to Russia's war on Ukraine and the resultant economic sanctions on Russia, as well as the zero-COVID-19 policy in China that repeatedly implements lockdowns leading to global supply bottlenecks. Second, policy has to base itself on data. If it is deficient, it introduces additional uncertainty, making projections for the future difficult and causing policies to fail. This will _____ the problem that results from the global uncertainty.

Since early 2020, the SARS-COV-2 virus has caused global uncertainty. Waves of COVID-19 have curtailed human activity with a consequent loss of production. Different countries have implemented lockdowns of varying severity leading to supply bottlenecks. In a globalised interdependent world, production was hit resulting in price rise (inflation) and loss of real incomes. This has resulted in decline in demand and, in a vicious cycle, a further slowing down of the economy. Predicting these declines has been difficult because **forecasting** when another wave would strike and how much disruption would occur has been difficult. As prices have risen globally and economies slowed down, many countries have faced stagflation. The uncertainty due to the novel coronavirus has declined in spite of waves of attack persisting because the impact of new virus mutants of the virus is milder and there is also immunity due to vaccination. Countries are not implementing lockdowns so vigorously now, in turn reducing adverse economic impact.

However, China is an exception with its zero-COVID policy. It has been implementing strict lockdowns in the last six months, even when only a few cases of the disease have been detected. Since China is now the manufacturing hub of the world, any disruption impacts supply globally and causes bottlenecks to persist. There is another issue now. Monkeypox virus has suddenly **emerged** and spread rapidly in the last few months to more than 80 countries where it is not endemic. The World Health Organization seems to be confident that this threat can be dealt with more easily than COVID-19. Yet, there is heightened concern and uncertainty.

Q1. Which of the following international event(s) affect(s) the decision-making of Indian policymakers?
(a) Sanction imposed on Russia as a result of its invasion of Ukraine.
(b) Frequently imposed lockdowns as the result of the zero-COVID 19 policy of China
(c) Economic crisis in Sri Lanka which has disrupted the supply chain
(d) Both (a) and (b)
(e) Both (b) and (c)

Q2. Which of the following options doesn't mention the impact of Covid-19 as given in the passage?
(a) Supply gets impacted by the imposed lockdowns
(b) Inflation in price rate while reduction in real income
(c) Decline in production followed by a reduction in human activities
(d) Shortage of medical staff as well as medical infrastructure
(e) None of these

Q3. Why has anticipating a decline in demand been difficult since early 2020?
(a) due to the absence of a dedicated government organization for the analysis of demand pattern
(b) because of the transformation in people's preferences and trends they followed
(c) because of the unpredictable nature of Covid-19 waves and the disruptions happen due to them
(d) because of unavailability of data and unreliable sources of information
(e) None of these

Q4. According to the passage, a country face stagflation when...........
(a) there is full employment but high purchasing power
(b) there is low prices with low demand in the economy
(c) there is high prices with high demand but low supply
(d) there is high prices with slow economic growth
(e) None of these

Q5. Which is/are the reason(s) for the negligible impact of new variants of COVID-19 on demand?
(a) People now have higher immunity after getting the jab
(b) New variants of Covid-19 are not as deadly as the earlier ones were
(c) Digitalization has eased the accessibility of goods and services
(d) Only (a) and (b)
(e) Only (b) and (c)

Q6. What makes China a key part of the global supply chain?
(a) China being the manufacturing hub of the world, its rigid Covid 19 policies paralyses the global supply chain.
(b) Being the only country that has an abundance of Covid-19 vaccines
(c) China's geographical location makes it rich in natural resources
(d) All of these
(e) Only (a) and (c)

Q7. Which of the following statements is/are **True** with reference to the information given in the passage?
(i) Countries are mitigating adverse economic impacts by easing lockdown restrictions.
(ii) Unavailability or scarcity of data may result in the failure of policies
(iii) WHO is assuring the world that Monkeypox is not as fatal as COVID-19 was.

(a) Only (i)
(b) Both (i) & (iii)
(c) Only (iii)
(d) All are true
(e) Both (ii) & (iii)

Q8. Which of the following can be used to fill the blank given in the passage in order to make a grammatically correct and contextually meaningful sentence?
(a) shimmer
(b) compound
(c) console
(d) prospect
(e) None of these

Q9. Which of the following is a synonym of '**Forecasting**' given in the passage?
(a) prophesying
(b) dubious
(c) renounce
(d) amplify
(e) None of these

Directions (10-15) : **There are certain words missing in the passage given below. The options given contain an answer that will fit in those given blanks. Choose the correct word to be used to make the sentence coherent and grammatically correct.**

Q10. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____**(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____**(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____**(13)** of climate change. The NDCs are, thus, the _____**(14)** of the Paris Agreement and for the achievement of long-term climate goals. They embody efforts by each party to reduce national emissions and adapt to the impacts of climate change. Further, the agreement aimed to balance _____**(15)** climate emission sources and sinks. In particular, Article 5 of the agreement highlights the role of forests in combatting climate change.
(a) ruffled
(b) concerted
(c) established
(d) intervened
(e) carouse

Q11. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____**(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____**(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____**(13)** of climate change. The NDCs are, thus, the _____**(14)** of the Paris Agreement and for the achievement of long-term climate goals. They embody efforts by each party to reduce national emissions and adapt to the impacts of climate change. Further, the agreement aimed to balance _____**(15)** climate emission sources and sinks. In particular, Article 5 of the agreement highlights the role of forests in combatting climate change.
(a) convenience
(b) predictability
(c) obedience
(d) commitment
(e) foundation

Q12. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____**(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____**(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____**(13)** of climate change. The NDCs are, thus, the _____**(14)** of the Paris Agreement and for the achievement of long-term climate goals. They embody efforts by each party to reduce national emissions and adapt to the impacts of climate change. Further, the agreement aimed to balance _____**(15)** climate emission sources and sinks. In particular, Article 5 of the agreement highlights the role of forests in combatting climate change.
(a) ripped
(b) predicted
(c) confided
(d) defiled
(e) adopted

Q13. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____**(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____**(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____**(13)** of climate change.

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(a) tragedy
(b) intricacy
(c) chaos
(d) propitious
(e) dilemma

Q14. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____ **(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____ **(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____ **(13)** of climate change. The NDCs are, thus, the _____ **(14)** of the Paris Agreement and for the achievement of long-term climate goals. They embody efforts by each party to reduce national emissions and adapt to the impacts of climate change. Further, the agreement aimed to balance _____ **(15)** climate emission sources and sinks. In particular, Article 5 of the agreement highlights the role of forests in combatting climate change.

(a) crux
(b) reverie
(c) tutelage
(d) redolent
(e) eponymous

Q15. Climate change is one of the cardinal new securities challenges in the 21st-century world; thus, its mitigation as well as adaptation requires _____ **(10)** efforts from the international community comprising nation states. Nations across the world showed their strong _____ **(11)** to address the issue of climate change through the Paris Agreement of 2015 for the post-2020 period. It has been a well-framed international legal framework under the United Nations Framework Convention on Climate Change (UNFCCC) . The Paris Agreement _____ **(12)** a bottom-up structure known as the Nationally Determined Contributions (NDCs) to address the _____ **(13)** of climate change. The NDCs are, thus, the _____ **(14)** of the Paris Agreement and for the achievement of long-term climate goals. They embody efforts by each party to reduce national emissions and adapt to the impacts of climate change. Further, the agreement aimed to balance _____ **(15)** climate emission sources and sinks. In particular, Article 5 of the agreement highlights the role of forests in combatting climate change.

(a) cryogenic
(b) pathogenic
(c) neurogenic
(d) anthropogenic
(e) transgenic

Directions (16-20) : Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is 'No error', the answer is 'e') . (Ignore errors of punctuation, if any.)

Q16. Both Rose as well as (A) / Jack are going to (B) / start their startups (C) / in recent months (D) / No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q17. The reason he is (A) / not talking to anyone (B) / is because he is (C) / emotionally disturbed today (D) / No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q18. Simla and their surrounding (A) /areas experienced the (B) /heaviest snowfall of (C) / the season last night (D) / No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q19. No sooner did I see (A) /my younger brother's low (B) / grades then I started (C) /worrying about his future (D) / No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No error

Q20. The world needs to (A) / get together at this (B) / crucially hour to defuse the (C) /tensions between Russia and Ukraine (D) / No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No error

Directions (21-24) : Which of the phrase/ word from the options (A) , (B) , (C) and (D) given below each sentence should replace the phrase printed in bold letters to make the sentence grammatically correct? If the sentence is correct as it is, mark i.e., "No replacement required" as the answer.

Q21. Sustainable source of water **is an importance determinant in** the success of safe water schemes.
(a) is an important determined in
(b) is an important determinant in
(c) is an importance determiner with
(d) is important determinants in
(e) No replacement required

Q22. Increasing economic prosperity **would significantly increase Indias'** energy appetite furthering import dependence.
(a) would significantly increases India's
(b) would significantly increase Indian's
(c) would significantly increase India's
(d) would significant increase India's
(e) No replacement required

Q23. The Russian energy company has announced that **it has completely suspended gas** supplies to Poland.
(a) it have completely suspended gas
(b) it has complete suspended gas
(c) it has completely suspend gas
(d) it has completely suspends gas
(e) No replacement required

Q24. The next ruler is **rather going to effectively** kill the peace or save it.
(a) if going to effectively
(b) rather going to effective
(c) whether going to effectively
(d) either going to effectively
(e) No replacement required

Directions (25-26) : In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should interchange with each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it is then select option (E) as your choice.

Q25. The recent **serious (A)** of the RBI to raise the repo rate by 40 basis points is a **recognition (B)** of the **action (C)** situation with respect to **inflation (D)** in our country

(a) (A) – (C)

(b) (C) – (D)

(c) (B) – (D)

(d) (A) - (D)

(e) No interchange required

Q26. The **consumption (A)** of junk foods that are high in **calories (B)** , sugar, fat and salt lead to the early onset of **adolescents (C)** among **obesity (D) .**

(a) (A) – (C)

(b) (C) – (D)

(c) (B) – (D)

(d) (A) - (D)

(e) No interchange required

Directions (27-30) : **In each of the questions given below, a sentence has been divided into FIVE parts. Rearrange the parts of the sentence to make a grammatically correct and contextually meaningful statement.**

Q27.

(A) is built on a set of received

(B) to the basic precepts of

(C) justice and fairness

(D) axioms that are inherent

(E) India's criminal justice system

(a) ABCDE

(b) DBCAE

(c) CDEBA

(d) EADBC

(e) BCDEA

Q28.

(A) in the World Trade Organization has

(B) the issue of public stockholding of food

(C) one of the cardinal demands of India

(D) to protect India's food security

(E) been to find a permanent solution to

(a) CAEBD

(b) DBCAE

(c) CDEBA

(d) DABEC

(e) BCDEA

Q29.
(A) in independent India
(B) youngest person to
(C) and the first to be born
(D) Droupadi Murmu is also the
(E) be elected as the President
(a) ABCDE
(b) DBECA
(c) CAEBD
(d) DABEC
(e) BCDEA

Q30.
(A) colonial times when the Indian
(B) British pound rather than to gold
(C) currency hierarchy goes back to
(D) which it earned through exports.
(E) rupee was virtually linked to the
(a) ABCDE
(b) CAEBD
(c) CDEBA
(d) DABEC
(e) BCDEA

Directions (31-35) : **Read the bar graph carefully and answer the following questions.**
The bar graph shows number of patients get hospitalized and percentage of patients recovered from covid19 from different states in November 2021.
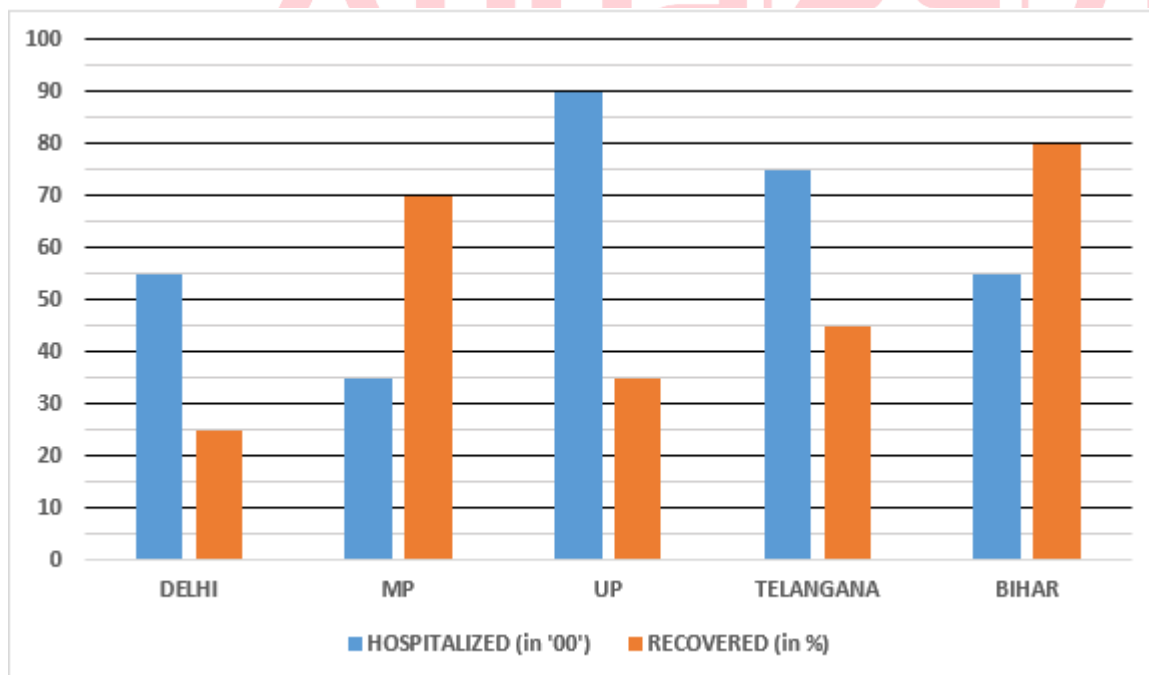
Q31. Find the difference between number of non-recovered patient from the state UP and Telangana together to the number of recovered patients in Delhi and MP together.
(a) 6150
(b) 4040
(c) 3030
(d) 2020
(e) 1010

Q32. What is the ratio of sum of 40% of non- recovered patient from Bihar and number of hospitalized patients from Delhi to the hospitalized patients from Telangana?
(a) 125:33
(b) 99:125
(c) 23:25
(d) 34:31
(e) 123:127

Q33. In Maharashtra, number of hospitalized patients is sum of hospitalized patients in Telangana and Bihar. If the number of recovered patients is only 25% then find the recovered patient in Maharashtra is approximately what percent of hospitalized patients in UP.
(a) 45%
(b) 39%
(c) 36%
(d) 33%
(e) 55%

Q34. Find the average number of patients recovered from the state Delhi, UP and Telangana.
(a) $\dfrac{7000}{3}$
(b) $\dfrac{7910}{3}$
(c) $\dfrac{7820}{3}$
(d) $\dfrac{7900}{3}$
(e) $\dfrac{7550}{3}$

Q35. Due to the celebration of Durga puja in state West Bengal the covid19 rises tremendously. The patients hospitalized in the state is three times more than hospitalized patients in UP. Due to the sudden rise of cases 20% people died and of the remaining people only 75% of pateint get the beds. Find the number of patients who did not get the beds.
(a) 1000
(b) 700
(c) 4000
(d) 8200
(e) 7200

Directions (36-40) : **Read the following table carefully and answer the questions given below. The following table shows the number of employees working in 5 different companies and ratio of number of employees working from home and working from office.**

Company	Number of employees	Working from Home: Working from Office
A	1500	2:3
B	800	7:9
C	600	1:1
D	1200	13:11
E	450	1:2

Q36. What is the average of number of employees working from home in company A, C and E together?
(a) 350
(b) 420
(c) 260
(d) 120
(e) 580

Q37. Number of employees working from office in company B is what % of number of employees working from office in company C?
(a) 75%
(b) 100%
(c) 150%
(d) 225%
(e) 50%

Q38. Find the ratio of number of employees working from home in company A and company C together to number of employees working from office in company E and company B together?
(a) 11:7
(b) 5:6
(c) 7:4
(d) 4:7
(e) 6:5

Q39. Ratio of male and female in company E is 5:4 and ratio of male and female working from home in that company only is 7:8, then find the number of females who working from office.
(a) 90
(b) 120
(c) 140
(d) 180
(e) 210

Q40. Find the difference between number of employees in company D and C together to number of employees in company A and E together.
(a) 110
(b) 85
(c) 135
(d) 150
(e) 175

Q41. A train leaves station A at 9:00 AM. The train reaches station B at 10:30 PM. If the distance between station A and station B is 486 km, then find the speed of the train (in meter per sec)?
(a) 10
(b) 12
(c) 15
(d) 8
(e) 18

Q42. Amar and Sameer started a partnership with investment of Rs.21000 and Rs.25000 respectively. After 6 months, Sameer withdraws 20% and Tarun joined the business with Rs.30000. If at the end of 1.5 years, profit share of Sameer is Rs.1300, then find the total profit?
(a) Rs.3140
(b) Rs.4280
(c) Rs.3760
(d) Rs.3910
(e) Rs.4760

Q43. A machine can produce 12 bolts in a second. In such speed of production, it takes 15 minutes to complete a job. If another machine, having speed of production 50% more than first machine, then find the time taken to complete 8 same types of job?
(a) 40 min
(b) 1 hour 10 min
(c) 1 hour
(d) 1 hour 20 min
(e) 50 min

Q44. A seller sold 120 articles. The marked price of each article is Rs.80 and he offers a discount of 10% on each article. If he made total profit of Rs.840, then find the cost price of each article?
(a) Rs.75
(b) Rs.65
(c) Rs.60
(d) Rs.66
(e) Rs.70

Q45. A boat covers 160 km from point A to point B and then return to point A in 15 hours. If the speed of stream increased by 8 kmph, then boat takes 4 hours to reach point B from A. Find the speed of boat in still water?
(a) 24 kmph
(b) 12 kmph
(c) 18 kmph
(d) 15 kmph
(e) 20 kmph

Q46. A can complete a piece of work in 8 days, A and B together can complete same work in 4.8 days and A, B and C together complete the work in $\frac{40}{11}$ days. Find the time taken by A and C together to complete the work?
(a) $\frac{120}{23}$ days
(b) 12 days
(c) 17.5 days
(d) $\frac{120}{29}$ days
(e) 20 days

Q47. Monthly income of Kunal is 25% more than Shubham. Kunal spends 25% of his income on house rent, 25% of remaining on food and rest he saves. If difference between monthly savings of Kunal and monthly income of Shubham is Rs.1900, then find monthly income of Kunal?
(a) Rs.6400
(b) Rs.9000
(c) Rs.12000
(d) Rs.8000
(e) Rs.10000

Q48. In a solution of sugar syrup and water, quantity of sugar syrup is 30% more than quantity of water. If 20% of quantity of solution of taken out and 11.5-liter water is added into the mixture, then the ratio of water and sugar syrup becomes 15: 8. Find the initial quantity of water?
(a) 9 liters
(b) 10 liters
(c) 11 liters
(d) 12 liters
(e) 13 liters

Q49. The length of rectangle is 16% more than its breadth. If perimeter of square, whose side is equal to length of rectangle is 8 cm more than perimeter of rectangle, then find the area of rectangle?

(a) 625 cm²
(b) 575 cm²
(c) 750 cm²
(d) 600 cm²
(e) 725 cm²

Q50. A man invests Rs. (P+2000) on simple interest at 20% per annum for 4 years. If he invests Rs. (2P-4000) in same scheme for the same time, then the interest earned would be Rs.8000 more. Find the value of P?
(a) Rs.16000
(b) Rs.18000
(c) Rs.20000
(d) Rs.12000
(e) Rs.12500

Directions (51-57) : **What approximate value should come in the place of question (?) mark:**

$$(360.91)^{\frac{1}{2}} - 10.99 \times 3.03 = \frac{419.82}{?} - 21.91 \times 7.02$$

Q51.
(a) 2
(b) 3
(c) 4
(d) 5
(e) 1

Q52. 349.94% of $43.98 + 140.04\%$ of $204.98 = (?)^2$
(a) 21
(b) 22
(c) 19
(d) 20
(e) 23

Q53. 124.97% of $464.04 + ?^3 \times 14.99 = (37.987)^2 + 96.08$
(a) 8
(b) 6
(c) 4
(d) 7
(e) 5

Q54. $(12.01)^2 + \frac{?}{10.99} = (16.02)^2 + \sqrt{1935.91}$
(a) 1228
(b) 1344
(c) 1472
(d) 1716
(e) 1560

Q55. $(20.93)^2 + (19.03)^2 + (5.98)^3 = ? \% \text{ of } 499$

(a) 204

(b) 217

(c) 185

(d) 235

(e) 175

Q56. $? \times (16.03\% \text{ of } 249.99 + 24.02\% \text{ of } 500.02) = (27.99)^2 + \sqrt{256.05}$

(a) 8

(b) 3

(c) 4

(d) 7

(e) 5

Q57. $\frac{225+?}{25} + 25\% \text{ of } 442.4 = 24.4 \times 5$

(a) 50

(b) 40

(c) 60

(d) 30

(e) 70

Q58. The average weight of a class of 28 students is 22 kg. If the teacher's weight is also included the average weight increases by 2 kg. Furthermore, if the average weight of the teacher's family having a wife and a daughter is 52 kg and the daughter's weight is 40% less than her mother's weight. then find the weight of teacher's wife?

(a) 40 kg

(b) 47.5 kg

(c) 55 kg

(d) 52.5 kg

(e) 60 kg

Q59. A man leaves Rs.23200 to be divided among 2 sons, 3 daughters, & 2 nephews. If each daughter receives 3 times as much as each nephew, and each son receives 3 times as much as each daughter, how much does each son receive?

(a) Rs.7200

(b) Rs.4400

(c) Rs.5400

(d) Rs.6000

(e) Rs.6500

Q60. The total cost of painting a rectangular wall at Rs.188.5 per square ft. is Rs.7540. the length of the wall is 3 ft. more than the breadth of the wall, then breadth of wall is what percent of length of wall?
(a) 60%
(b) 32.5%
(c) 25%
(d) 62.5%
(e) 50%

Directions (61-65) : **What should come in the place of question (?) mark in following number series.**

Q61. 21, ?, 129, 237, 381, 561
(a) 55
(b) 53
(c) 59
(d) 57
(e) 61

Q62. 12, 13.6, 16.8, 21.6, ?, 36
(a) 28
(b) 24
(c) 22
(d) 20
(e) 30

Q63. 116, 342, 512, 634, ?, 766
(a) 712
(b) 716
(c) 710
(d) 708
(e) 718

Q64. 16, ?, 512, 1024, 1024, 512
(a) 124
(b) 122
(c) 128
(d) 120
(e) 118

Q65. 4, 9, 28, 113, 566, ?
(a) 3395
(b) 3391
(c) 3389
(d) 3399
(e) 3397

Directions (66-68) : **In these questions, relationship between different elements is shown in the statements. The statements are followed by two conclusions.**
Give answer

Q66.
Statements: K > J ≤ A = B; M > B ≥ C < D; P > Q = M
Conclusions:
I. A < P
II. J < C

(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q67.
Statements: K > J ≤ A = B; M > B ≥ C < D; P > Q = M
Conclusions:
I. B > K
II. A ≤ K

(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Q68.
Statements: U > V < W ≥ X; Y ≥ W < Z; P < R > Z
Conclusions:
I. R > V
II. X ≤ Y

(a) If only conclusion I is true
(b) If only conclusion II is true
(c) If either conclusion I or II is true
(d) If neither conclusion I nor II is true
(e) If both conclusions I and II are true

Directions (69-73) : **Study the information given below and answer the following questions:**
Eight person A, B, C, D, F, G, H and K were born on eight different years viz. 1971, 1975, 1982, 1988, 1994, 1999, 2003, 2006 but not necessarily in the same order. Age (in years) of all the persons is calculated according to the base year 2021.
B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. C was born in an even numbered year.

Q69. What is the age of C?

(a) 39 years

(b) 27 years

(c) 15 years

(d) 33 years

(e) None of these

Q70. Who among the following is just older to B?

(a) K

(b) A

(c) H

(d) G

(e) None of these

Q71. K was born in which among the following year?

(a) 1975

(b) 1982

(c) 1994

(d) 1988

(e) None of these

Q72. What is the age difference between C and K?

(a) 13 years

(b) 12 years

(c) 18 years

(d) 24 years

(e) None of these

Q73. How many persons are younger to G?

(a) One

(b) Four

(c) Two

(d) Five

(e) Three

Q74. If in the given number '97247563286', 1 is added to each of the even digits and 2 is subtracted from each of the odd digits, then the digits are arranged in ascending order from right to left end, find the fourth digit from the left end in the number thus formed?

(a) 9

(b) 3

(c) 1

(d) 7

(e) None of these

Directions (75-77) : **In each of the questions below some statements are given followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

Q75.
Statements:
Only a few black is white.
Some white are grey.
Only grey is blue.
Conclusions:
I. Some blue can be white.
II. All white can never be black.
(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.

Q76.
Statements:
No car is bus.
Only a few cycle is bus.
Some train is not cycle.
Conclusions:
I. Some cycle is not bus.
II. All train can never be cycle.
(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.

Q77.
Statements:
Only a few English is Hindi.
Some economics is not Hindi.
No economics is history.
Conclusions:
I. Some Hindi is not History.
II. Some Hindi is History.
(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.

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

Seven boxes A, B, C, D, E, F and G are placed one above the other in a stack but not necessarily in the same order.

Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. C is placed below A but not immediate below. Same number of boxes are placed below and above C and E respectively.

Q78. How many boxes are placed below D?
(a) Three
(b) Four
(c) Five
(d) One
(e) None of these

Q79. How many boxes are placed between E and C?
(a) Two
(b) Three
(c) One
(d) Four
(e) None of these

Q80. Which among the following box is placed just above C?
(a) E
(b) D
(c) G
(d) F
(e) None of these

Q81. The number of boxes placed between D and F is same as the number of boxes placed below __ .
(a) C
(b) E
(c) B
(d) G
(e) None of these

Q82. If all the boxes are arranged according to alphabetical order from bottom to top, then which among the following box/boxes is/are will remain same on its position?
(a) Both D and F
(b) Only D
(c) Only F
(d) Both C and D
(e) No box will remain same on its position

Directions (83-85) : **Study the following information carefully and answer the questions given below:**

Richard starts walking from point A and walked 6m towards south and reached at point B and after reaching at point B he takes a left turn and reached at point C after walking 6m. From there he again takes a left turn and walked 2m to reach at point D and now he takes a right turn and walked 5m to reach at point E. From there he takes a left turn and walked 4m to reach at point F. At the end he takes a left turn and after walking 3m he reaches at point G.

Q83. Point D is in which direction with respect to point G?
(a) South east
(b) South west
(c) North
(d) North east
(e) North west

Q84. What is the shortest distance between the point B and point D?
(a) 40m
(b) $2\sqrt{11}$m
(c) $2\sqrt{10}$m
(d) None of these
(e) 41m

Q85. What is the shortest path between point A and point G?
(a) 8m
(b) 9m
(c) 10m
(d) None of these
(e) 4m

Directions (86-90) : **Study the following information and answer the questions below:**

Eight persons D, E, F, G, H, K, P and L sit around a square table but not necessarily in the same order. Four persons sit at four corners and rest four persons sit at middle of each side of the table. Four persons face inside and four face outside the table.

P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. Two persons sit between P and E. E faces D. G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction.

Q86. Who among the following sits opposite to F?
(a) G
(b) L
(c) K
(d) Either G or K
(e) None of these

Q87. What is the position of L with respect to P?
(a) Third to the right
(b) Immediate right
(c) Second to the left
(d) Second to the right
(e) None of these

Q88. Who among the following sits immediate right of the one who sits second to the right of K?
(a) H
(b) L
(c) E
(d) D
(e) None of these

Q89. If E and F interchanges their position, then who among the following sits adjacent to E?
(a) G
(b) H
(c) L
(d) D
(e) P

Q90. Four among the following five are same in a certain manner and form a group, who among the following does not belong to the group?
(a) P
(b) F
(c) L
(d) K
(e) G

Directions (91-94) : **Study the following information and answer the questions below:**
Seven persons P, Q, R, S, T, U and V work on different designations (but not necessarily in the same order) viz. Trainee, Executive, Team Leader, Manager, MD, CEO and CFO in a company. The order of seniority is same as given- Trainee is the junior most and CFO is the senior most designation.
R is senior to MD. There are two persons work between R and V. T is senior to Executive and junior to MD. P is junior to R. P is senior to trainee. More than three persons work between P and Q. S is just senior to Q.

Q91. Who among the following works as CEO?
(a) S
(b) R
(c) P
(d) U
(e) None of these

Q92. U works on which among the following designation?

(a) CFO

(b) MD

(c) Executive

(d) CEO

(e) None of these

Q93. How many persons are junior to S?

(a) Four

(b) Three

(c) Two

(d) One

(e) None of these

Q94. Who among the following is just senior to V?

(a) T

(b) Either T or R

(c) The person who is just junior to P

(d) Q

(e) R

Directions (95-98) : **Study the given information carefully to answer the questions below:**

In a certain code language

'Meeting Check Circle Star' is coded as 'slk dgv cni bnm'

'Circle Yellow Coffee Star' is coded as 'slk poz trf bnm'

'Meeting Coffee Line Star' is coded as 'dgv poz kda bnm'

'Board Star Yellow' is coded as 'bnm trf lfh'

Q95. What is the code for 'Line' in the given code language?

(a) dgv

(b) bnm

(c) poz

(d) kda

(e) None of these

Q96. The code 'slk' stands for which among the following words?

(a) Coffee

(b) Yellow

(c) Circle

(d) Star

(e) None of these

Q97. What will be the code for 'Board Meeting' according to the given code language?
(a) lfh bnm
(b) lfh dgv
(c) dgv poz
(d) trf bnm
(e) Can't be determined

Q98. Which among the following words are coded as 'cni poz' in the given code language?
(a) Meeting Line
(b) Check Coffee
(c) Check star
(d) Coffee Board
(e) None of these

Directions (99-100) : **Study the given series carefully and answer the following questions:**
H F 3 A L 2 3 I B 6 R E 8 2 R 3 T M 6 B I C 9 4 D U 3 4 T 7 4

Q99. How many vowel/vowels are there in the series which are immediately followed by a number?
(a) Two
(b) Three
(c) Four
(d) One
(e) None of these

Q100. How many numbers are there in the series which are immediately preceded and followed by a letter?
(a) None
(b) One
(c) Two
(d) Three
(e) None of these

Solutions

S1. Ans.(d)
Sol. The correct choice is option (d) , which can be inferred from the first paragraph which mentions," Indian policymakers would face two crucial problems. First, the main uncertainty is due to Russia's war on Ukraine and the resultant economic sanctions on Russia, as well as the zero-COVID-19 policy in China that repeatedly implements lockdowns leading to global supply bottlenecks"

S2. Ans.(d)
Sol. The correct choice is option (d) , which can be inferred from the second paragraph which mentions," Waves of COVID-19 have curtailed human activity with a consequent loss of production. Different countries have implemented lockdowns of varying severity leading to supply bottlenecks. In a globalised interdependent world, production was hit resulting in price rise (inflation) and loss of real incomes."

S3. Ans.(c)
Sol. To validate the answer, refer to the second paragraph which mentions, "This has resulted in decline in demand and, in a vicious cycle, a further slowing down of the economy. Predicting these declines has been difficult because forecasting when another wave would strike and how much disruption would occur has been difficult".

S4. Ans.(d)
Sol. The correct answer choice can be validated from the line given in the second paragraph which mentions, "As prices have risen globally and economies slowed down, many countries have faced stagflation."

S5. Ans.(d)
Sol. To validate the answer, refer to the second paragraph which mentions, "The uncertainty due to the novel coronavirus has declined in spite of waves of attack persisting because the impact of new virus mutants of the virus is milder and there is also immunity due to vaccination".

S6. Ans.(a)
Sol. To validate the answer, refer to the third paragraph which mentions, "Since China is now the manufacturing hub of the world, any disruption impacts supplies globally and causes bottlenecks to persist."

S7. Ans.(d)
Sol. All the given statements are true as per the information given in the passage.
For statement (i) , refer to the second paragraph which mentions, "Countries are not implementing lockdowns so vigorously now, in turn reducing adverse economic impact."
For statement (ii) , refer to the first paragraph which mentions, "Second, policy has to base itself on data. If it is deficient, it introduces additional uncertainty, making projections for the future difficult and causing policies to fail."
For statement (iii) , refer to the last paragraph which mentions, "The World Health Organization seems to be confident that this threat can be dealt with more easily than COVID-19. Yet, there is heightened concern and uncertainty".

S8. Ans.(b)
Sol. 'Compound' is the most suitable word for the given blank in the passage.
shimmer means shine with a soft, slightly wavering light.
compound means make (something bad) worse; intensify the negative aspects of.
console means comfort (someone) at a time of grief or disappointment.
prospect means the possibility or likelihood of some future event occurring.

S9. Ans.(a)
Sol. 'Prophesying' is a synonym of 'forecasting'
prophesying means say that (a specified thing) will happen in the future.
dubious means hesitating or doubting.
renounce means formally declare one's abandonment of (a claim, right, or possession) .
amplify means make (something) more marked or intense.

S10. Ans.(b)
Sol. The word best suited for the given blank is "concerted".
Ruffled: disarranged
Concerted: in group agreement; working as a team
Established: having existed or done something for a long time and therefore recognized and generally accepted.
Intervened: take part in something so as to prevent or alter a result or course of events
Carouse: a noisy, lively drinking party.

S11. Ans.(d)
Sol. The word best suited for the given blank is "commitment"
Convenience: the state of being able to proceed with something without difficulty.
Predictability: the ability to be predicted.
Obedience: compliance with an order, request, or law or submission to another's authority.
Commitment: the state or quality of being dedicated to a cause, activity, etc.
Foundation: an underlying basis or principle.

S12. Ans.(e)
Sol. The word best suited for the given blank is "adopted"
Ripped: badly torn
Predicted: stated or estimated as likely to happen in the future; forecast.
Confided: trust (someone) enough to tell them of a secret or private matter.
Defiled: desecrate or profane (something sacred)
Adopted: choose to take up, follow, or use.

S13. Ans.(a)
Sol. The word best suited for the given blank is "tragedy"
Tragedy: an event causing great suffering, destruction, and distress
Intricacy: details, especially of an involved or perplexing subject.
Chaos: complete disorder and confusion
Propitious: giving or indicating a good chance of success; favourable.
Dilemma: a difficult situation or problem.

S14. Ans.(a)
Sol. The word best suited for the given blank is "crux"
Crux: an essential point requiring resolution or resolving an outcome
Reverie: a state of being pleasantly lost in one's thoughts; a daydream.
Tutelage: instruction; tuition.
Redolent: strongly reminiscent or suggestive of.
Eponymous: (of a person) giving their name to something.

S15. Ans.(d)
Sol. The word best suited for the given blank is "anthropogenic"
Cryogenic: relating to or involving the branch of physics that deals with the production and effects of very low temperatures.
Pathogenic: Neurogenic: caused or controlled by or arising in the nervous system.
Anthropogenic: (chiefly of environmental pollution and pollutants) originating in human activity
Transgenic: Organisms that have altered genomes are known as transgenic

S16. Ans.(a)
Sol. The error lies in part (A) . Here 'as well as' should be replaced with 'and' because we always use 'and' with 'both'.

S17. Ans.(c)
Sol. The error lies in part (C) . Here 'because' should be replaced with 'that' because "the reason" itself mentions the reason and use of 'because' is redundant here.

S18. Ans.(a)
Sol. The error lies in part (A) . Here possessive pronoun 'their' should be replaced with 'its' for the singular noun 'Shimla'.

S19. Ans.(c)
Sol. The error lies in part (C) . Here 'then' should be replaced with 'than' because if the second event occurs immediately after the first, we can express that idea using the structure no sooner … than.

S20. Ans.(c)
Sol. The error lies in part (C) . Here 'crucially' (adverb) should be replaced with 'crucial' (adjective) to modify noun 'hour'.

S21. Ans.(b)
Sol. The given highlighted part is incorrect because we need adjective 'important' to modify noun 'determinant'. Preposition 'in' is correct after 'determinant' therefore the correct replacement is 'is an important determinant in'.

S22. Ans.(c)
Sol. In the given sentence, 'Indias' is incorrect because it indicates that we are talking about belongingness of more than one India. 'Increase' is correct because after 'would', which is a modal verb, we will use base form of verb. In option (b) 'Indian's' is contextually incorrect. In option (d) , 'significant' should be 'significantly' as we need adverb here.

S23. Ans.(e)

Sol. The given highlighted phrase is correct hence no replacement required.

S24. Ans.(d)

Sol. In the highlighted phrase 'rather' is incorrect because we use the either-or to refer to the one or the other of two alternatives.

S25. Ans.(a)

Sol. We need to interchange (A) -(C) to make sentence contextually meaningful. Therefore, the correct sentence will be "The recent action of the RBI to raise the repo rate by 40 basis points is a recognition of the serious situation with respect to inflation in our country"

S26. Ans.(b)

Sol. We need to interchange (C) -(D) to make sentence contextually meaningful. Therefore, the correct sentence will be "The consumption of junk foods that are high in calories, sugar, fat and salt lead to the early onset of obesity among adolescents"

S27. Ans.(d)

Sol. By going through the all phrases, we can conclude that the sentence is talking about the Indian criminal justice system and its features. So, we can conclude that the correct rearrangement of the given phrases will be EADBC and the sentence will be, "India's criminal justice system is built on a set of received axioms that are inherent to the basic precepts of justice and fairness."

S28. Ans.(a)

Sol. By going through the all phrases we can conclude that the sentence is talking about India's demand which is to find a long-term solution to the problem of public stockholdings. Therefore, the correct rearrangement of the phrases will be CAEBD and the sentence will be, "One of the cardinal demands of India in the World Trade Organization has been to find a permanent solution to the issue of public stockholding of food to protect India's food security".

S29. Ans.(b)

Sol. By going through the all phrases we can conclude that the sentence is talking about Droupadi Murmu aka the newly appointed President of India. Therefore, the correct rearrangement of the phrases will be DBECA and the sentence will be, "Droupadi Murmu is also the youngest person to be elected as the President and the first to be born in independent India."

S30. Ans.(b)

Sol. By going through the all phrases, we can conclude that the sentence is talking about currency hierarchy since the colonial era. Therefore, the correct rearrangement of the given phrases will be CAEBD and the sentence will be, "Currency hierarchy goes back to colonial times when the Indian rupee was virtually linked to the British pound rather than to gold which it earned through exports."

S31. Ans.(a)
Sol.

Number of non-recovered patient from the state UP and Telangana
$= 9000 \times \times \frac{100-35}{100} + 7500 \times \frac{100-45}{100} = 5850 + 4125 = 9975$

Number of recovered patients in Delhi and MP
$= 5500 \times \frac{25}{100} + 3500 \times \frac{70}{100} = 1375 + 2450 = 3825$

Required difference= 9975-3825= 6150

S32. Ans.(b)
Sol.

Non-recovered patients from Bihar= $5500 \times \frac{(100-80)}{100} = 1100$

Number of hospitalized patients from Delhi= 5500

Number of hospitalized patients from Telangana= 7500

Required ratio= $\frac{40}{100} \times 1100 + 5500 : 7500 = 440 + 5500 : 7500 = 99 : 125$

S33. Ans.(c)
Sol.

Number of hospitalized patients in Maharashtra= 7500+5500=13000

Number of recovered patients in Maharashtra= $\frac{25}{100} \times 13000 = 3250$

Required percentage= $\frac{3250}{9000} \times 100 = 36.11\% \approx 36\%$

S34. Ans.(d)
Sol.

Patients recovered from the state Delhi = $\frac{25}{100} \times 5500 = 1375$

Patients recovered from the state UP= $\frac{35}{100} \times 9000 = 3150$

Patients recovered from the state Telangana= $\frac{45}{100} \times 7500 = 3375$

Req. average= $\frac{1375+3150+3375}{3} = \frac{7900}{3}$

S35. Ans.(e)
Sol.

Patient hospitalized in west Bengal= (3+1) ×9000=36000

Patients died= $36000 \times \frac{20}{100} = 7200$

Patients did not get the beds= $(36000-7200) \times \frac{25}{100} = 7200$

S36. Ans.(a)
Sol.

Req. average = $\frac{1500 \times \frac{2}{5} + 600 \times \frac{1}{2} + 450 \times \frac{1}{3}}{3} = \frac{(600+300+150)}{3} = 350$

S37. Ans.(c)
Sol.

$$\text{Req. } \% = \frac{800 \times \frac{9}{16}}{600 \times \frac{1}{2}} \times 100 = \frac{450}{300} \times 100 = 150\%$$

S38. Ans.(e)
Sol.

Req. ratio $= \left(1500 \times \frac{2}{5} + 600 \times \frac{1}{2}\right) : \left(450 \times \frac{2}{3} + 800 \times \frac{9}{16}\right) = (600 + 300) : (300 + 450)$

$900 : 750 = 6 : 5$

S39. Ans.(b)
Sol.

Number of male employees in company E $= 450 \times \frac{5}{9} = 250$

Number of female employees in company E $= 450 \times \frac{4}{9} = 200$

Total number of employees who are working from home in company E $= 450 \times \frac{1}{3} = 150$

Number of male employees who are working from home in company E $= 150 \times \frac{7}{15} = 70$

Number of female employees who are working from home company E $= 150 \times \frac{8}{15} = 80$

Number of females who are working from office $= 200 - 80 = 120$

S40. Ans.(d)
Sol.

Req. difference $= (1500 + 450) - (1200 + 600) = 150$

S41. Ans.(a)
Sol.

Total time $= 10:30 \, PM - 9:00 \, AM = 13.5 \, hours$

So, speed of train $= \frac{486}{13.5} = 36 \, kmph$

$= 36 \times \frac{5}{18} = 10 \, m/s$

S42. Ans.(c)
Sol.

Respective ratio of profit share of Amar, Sameer and Tarun =

$= 21000 \times 18 : 25000 \times 6 + 25000 \times \frac{4}{5} \times 12 : 30000 \times 12$

$= 63 : 65 : 60$

So, total profit $= 1300 \times \frac{188}{65} = Rs. \, 3760$

S43. Ans.(d)
Sol.

Total bolts production to complete the job $= 12 \times 15 \times 60 = 10800$ bolts

Speed of production of second machine $= 12 \times \frac{150}{100} == 18$ bolts per second

So, required time $= \frac{10800 \times 8}{18 \times 60} = 80$ min $= 1$ hour 20 min

S44. Ans.(b)
Sol.

Selling price of each article $= 80 \times \frac{9}{10} = Rs.\, 72$

Total Selling price $= 72 \times 120 = Rs.\, 8640$

Total Cost price $= 8640 - 840 = Rs.\, 7800$

So, Cost price of each article $= \frac{7800}{120} = Rs.\, 65$

S45. Ans.(a)
Sol.

Let speed of boat in still water and speed of stream is x and y kmph respectively.

ATQ

$\frac{160}{x+y} + \frac{160}{x-y} = 15$ ...(i)

Now, there are two cases -

1. $\frac{160}{x+y+8} = 4$

2. $\frac{160}{x-(y+8)} = 4$

From case 1:

$x + y = 32$

Put in (i)

$x - y = 16$

From case 2:

$x - y = 48$

Put in (i)

$x + y = \frac{96}{7}$

Since, Downstream speed > upstream speed

So, case 2 eliminated.

So, $x = \frac{32+16}{2} = 24$ kmph

S46. Ans.(a)
Sol.

Let total work be 120 units (LCM of 8, 4.8 and 40/11)

So, efficiency of A $= \frac{120}{8} = 15$ units/day

Efficiency of A + B $= \frac{120}{4.8} = 25$ units/day

Efficiency of A + B + C $= 120 \times \frac{11}{40} = 33$ units/day

And, efficiency of C $= 33 - 25 = 8$ units/day

So, required time $= \frac{120}{23}$ days

S47. Ans.(d)
Sol.

Let monthly income of Shubham be Rs.64x

So, monthly income of Kunal $= 64x \times \frac{125}{100} = 80x$

House rent of Kunal $= 80x \times \frac{25}{100} = 20x$

Expense on food $= (80x - 20x) \times \frac{25}{100} = 15x$

Monthly savings of Kunal $= 80x - 20x - 15x = 45x$

ATQ,

$64x - 45x = 19x = 1900$

$x = 100$

So, monthly income of Kunal $= 80x = $ Rs. 8000

S48. Ans.(b)
Sol.

Let quantity of water be 10x.

Quantity of sugar syrup = 13x

ATQ

$\frac{13x \times \frac{4}{5}}{10x \times \frac{4}{5} + 11.5} = \frac{8}{15}$

$156x = 64x + 92$

$92x = 92$

$x = 1$

So, required quantity of water $= 10x = 10 \ liter$

S49. Ans.(e)
Sol.

Let breadth of rectangle be 25x.

Length of rectangle $= 25x \times \frac{116}{100} = 29x$

So, side of square $= 29x$

ATQ

$4 \times 29x - 2(25x + 29x) = 8$

$29x - 27x = 2$

$x = 1$

So, length and breadth of rectangle is 29 cm and 25 cm respectively.

Area of rectangle $= 29 \times 25 = 725 \ cm^2$

S50. Ans.(a)
Sol.

ATQ

$\frac{(2P-4000) \times 20 \times 4}{100} - \frac{(P+2000) \times 20 \times 4}{100} = 8000$

$P - 6000 = 8000 \times \frac{5}{4}$

$P = 16000$

S51. Ans.(b)
Sol.

$$(360.91)^{\frac{1}{2}} - 10.99 \times 3.03 = \frac{419.82}{?} - 21.91 \times 7.02$$

$$361^{\frac{1}{2}} - 11 \times 3 = \frac{420}{?} - 22 \times 7$$

$$19 - 33 = \frac{420}{?} - 154$$

$$\frac{420}{?} = 140$$

$$? = 3$$

S52. Ans.(a)
Sol.

349.94% of 43.98 + 140.04% of 204.98 = $(?)^2$

350% of 44 + 140% of 205 = $?^2$

$$\frac{350}{100} \times 44 + \frac{140}{100} \times 205 = ?^2$$

$$154 + 287 = ?^2$$

$$? = 21$$

S53. Ans.(c)
Sol.

124.97 % of 464.04 + $?^3 \times 14.99 = (37.987)^2 + 96.08$

125% of 464 + $?^3 \times 15 = 38^2 + 96$

$$\frac{125}{100} \times 464 + ?^3 \times 15 = 1444 + 96$$

$$580 + ?^3 \times 15 = 1540$$

$$?^3 = \frac{960}{15} = 64$$

$$? = 4$$

S54. Ans.(d)
Sol.

$$(12.01)^2 + \frac{?}{10.99} = (16.02)^2 + \sqrt{1935.91}$$

$$12^2 + \frac{?}{11} = 16^2 + \sqrt{1936}$$

$$144 + \frac{?}{11} = 256 + 44$$

$$\frac{?}{11} = 156$$

$$? = 1716$$

S55. Ans.(a)
Sol.

$(20.93)^2 + (19.03)^2 + (5.98)^3 = ?$ % of 499

$21^2 + 19^2 + 6^3 = ?$ % of 500

$441 + 361 + 216 = 5 \times ?$

$$? = \frac{1018}{5} = 203.60 \approx 204$$

33

S56. Ans.(e)
Sol.

$? \times (16.03\% \ of \ 249.99 + 24.02\% \ of \ 500.02) = (27.99)^2 + \sqrt{256.05}$

$? \times \left(\frac{16}{100} \times 250 + \frac{24}{100} \times 500\right) = 784 + 16$

$? \times 160 = 800$

$? = 5$

S57. Ans.(c)
Sol.

$\frac{225+?}{25} + \frac{1}{4} \times 442.4 = 122$

$\frac{225+?}{25} + 110.6 = 122$

$225 + ? = 3050 - 2765$

$? = 285 - 225$

$? = 60$

S58. Ans.(b)
Sol.

Teacher weight $= 29 \times 24 - 28 \times 22 = 80$ kg

Sum of teacher's wife and daughter weight $= 52 \times 3 - 80 = 76$ kg

Let wife's weight be 5x years

And daughter weight $= 5x \times \frac{60}{100} = 3x$

ATQ.

$5x + 3x = 76$

$x = 9.5$ kg

wife weight $= 9.5 \times 5 = 47.5$ kg

S59. Ans.(a)
Sol.

ATQ.

Ratio of amount received by each son, nephew and daughter

$9x : x : 3x$

And ratio of 2 sons, 3 daughters, & 2 nephews receive amount

$18x : 9x : 2x$

$18x + 9x + 2x = 23200$

$x = 800$

Each son receives amount $= 9 \times 800 = $ Rs. 7200

S60. Ans.(d)

Sol.

Total expenditure on painting = Rs.7540

Rate = Rs.188.5 per square ft.

Area of wall = $\frac{7540}{188.5}$ = 40 square ft.

Let the breadth of wall = x ft

And the length of the wall = (x + 3) ft.

ATQ.

$x \times (x + 3) = 40$

$x^2 + 3x - 40 = 0$

$x^2 + 8x \quad 5x \quad 40 = 0$

$x(x + 8) - 5(x + 8) = 0$

$(x - 5)(x + 8) = 0$

$x = 5, -8$

So, x = 5

breadth of wall = 5 ft.

Length of wall = (x + 3) = 5 + 3 = 8 ft

Req. % = $\frac{5}{8} \times 100 = 62.5\%$

S61. Ans.(d)

Sol.

Pattern of series –

+ (36 × 1) , + (36 × 2) , + (36 × 3) , + (36 × 4), + (36 × 5)

So, ? = 21 + (36 × 1) = 57

S62. Ans.(a)

Sol.

Pattern of series –

+ (1.6 × 1), + (1.6 × 2) , + (1.6 × 3), + (1.6 × 4), + (1.6 × 5)

21.6 + (1.6 × 4) = 28

S63. Ans.(b)

Sol.

Pattern of series –

116 + (15² + 1) = 342

342 + (13² + 1) = 512

512 + (11² +1) = 634

? = 634 + (9² + 1) = 716

716 + (7² + 1) = 766

S64. Ans.(c)
Sol.
Pattern of series –
? = 16 × 8 = 128
128 × 4 = 512
512 × 2 = 1024
1024 × 1 = 1024
1024 × 0.5 = 512

S65. Ans.(e)
Sol.
4 × 2 + 1 = 9
9 × 3 + 1 = 28
28 × 4 + 1 = 113
113 × 5 + 1 = 566
? = 566 × 6 + 1 = 3397

S66. Ans.(a)
Sol. I. A < P (True)   II. J < C (False)

S67. Ans.(c)
Sol. I. B > K (False)   II. A ≤ K (False)

S68. Ans.(e)
Sol. I. R > V (True)   II. X ≤ Y(True)

S69. Ans.(c)
Sol. B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. There are two possible cases.

Years	Ages	Persons	
		Case 1	Case 2
1971	50		H
1975	46	D	B
1982	39		
1988	33		
1994	27		D
1999	22	H	
2003	18	B	
2006	15		

The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. Case 2 will eliminate here. C was born in an even numbered year.

So, the final arrangement is:

Years	Ages	Persons
1971	50	F
1975	46	D
1982	39	K
1988	33	A
1994	27	G
1999	22	H
2003	18	B
2006	15	C

S70. Ans.(c)

Sol. B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. There are two possible cases.

Years	Ages	Persons	
		Case 1	Case 2
1971	50		H
1975	46	D	B
1982	39		
1988	33		
1994	27		D
1999	22	H	
2003	18	B	
2006	15		

The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. Case 2 will eliminate here. C was born in an even numbered year.

So, the final arrangement is:

Years	Ages	Persons
1971	50	F
1975	46	D
1982	39	K
1988	33	A
1994	27	G
1999	22	H
2003	18	B
2006	15	C

S71. Ans.(b)

Sol. B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. There are two possible cases.

Years	Ages	Persons	
		Case 1	Case 2
1971	50		H
1975	46	D	B
1982	39		
1988	33		
1994	27		D
1999	22	H	
2003	18	B	
2006	15		

The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. Case 2 will eliminate here. C was born in an even numbered year.

So, the final arrangement is:

Years	Ages	Persons
1971	50	F
1975	46	D
1982	39	K
1988	33	A
1994	27	G
1999	22	H
2003	18	B
2006	15	C

S72. Ans.(d)
Sol. B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. There are two possible cases.

Years	Ages	Persons	
		Case 1	Case 2
1971	50		H
1975	46	D	B
1982	39		
1988	33		
1994	27		D
1999	22	H	
2003	18	B	
2006	15		

The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. Case 2 will eliminate here. C was born in an even numbered year.

So, the final arrangement is:

Years	Ages	Persons
1971	50	F
1975	46	D
1982	39	K
1988	33	A
1994	27	G
1999	22	H
2003	18	B
2006	15	C

S73. Ans.(e)

Sol. B is either second youngest or second oldest person among all. Age difference between B and H is 4 years. Three persons were born between H and D. There are two possible cases.

Years	Ages	Persons	
		Case 1	Case 2
1971	50		H
1975	46	D	B
1982	39		
1988	33		
1994	27		D
1999	22	H	
2003	18	B	
2006	15		

The number of persons were born between D and B is same as the number of persons were born after A. Age difference between K and A is same as the age difference between G and A. K is older to G. Case 2 will eliminate here. C was born in an even numbered year.

So, the final arrangement is:

Years	Ages	Persons
1971	50	F
1975	46	D
1982	39	K
1988	33	A
1994	27	G
1999	22	H
2003	18	B
2006	15	C

S74. Ans.(d)
Sol.

9 7 2 4 7 5 6 3 2 8 6
7 5 3 5 5 3 7 1 3 9 7
9 7 7 [7] 5 5 5 3 3 3 1

S75. Ans.(d)
Sol.

S76. Ans.(e)
Sol.
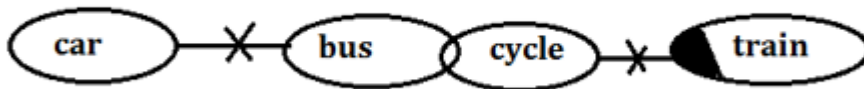
S77. Ans.(d)
Sol.
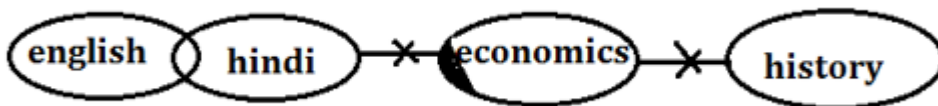
S78. Ans.(a)
Sol. Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. There are two possible cases.

Boxes	
Case 1	Case 2
G	A
F	B
A	G
B	F

C is placed below A but not immediate below. Case 1 will eliminate here. Same number of boxes are placed below and above C and E respectively. So, the final arrangement is:

Box
A
E
B
D
G
C
F

S79. Ans.(b)
Sol. Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. There are two possible cases.

| Boxes	
Case 1	**Case 2**
G	A
F	B
A	G
B	F

C is placed below A but not immediate below. Case 1 will eliminate here. Same number of boxes are placed below and above C and E respectively. So, the final arrangement is:

Box
A
E
B
D
G
C
F

S80. Ans.(c)
Sol. Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. There are two possible cases.

Boxes	
Case 1	**Case 2**
G	A
F	B
A	G
B	F

C is placed below A but not immediate below. Case 1 will eliminate here. Same number of boxes are placed below and above C and E respectively. So, the final arrangement is:

Box
A
E
B
D
G
C
F

S81. Ans.(d)
Sol. Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. There are two possible cases.

Boxes	
Case 1	Case 2
G	A
F	B
A	G
B	F

C is placed below A but not immediate below. Case 1 will eliminate here. Same number of boxes are placed below and above C and E respectively. So, the final arrangement is:

Box
A
E
B
D
G
C
F

S82. Ans.(b)
Sol. Three boxes are placed between G and A. F is placed two places below G. One box is placed between A and B. There are two possible cases.

Boxes	
Case 1	Case 2
G	A
F	B
A	G
B	F

C is placed below A but not immediate below. Case 1 will eliminate here. Same number of boxes are placed below and above C and E respectively. So, the final arrangement is:

Box
A
E
B
D
G
C
F

S83. Ans.(b)
Sol.
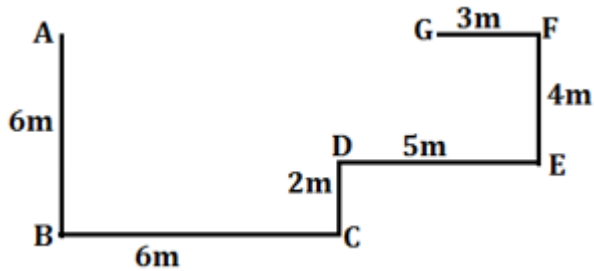
S84. Ans.(c)
Sol.
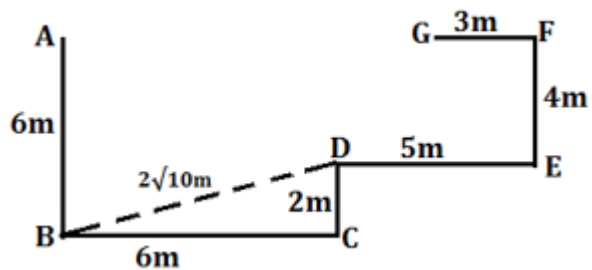
S85. Ans.(a)
Sol.
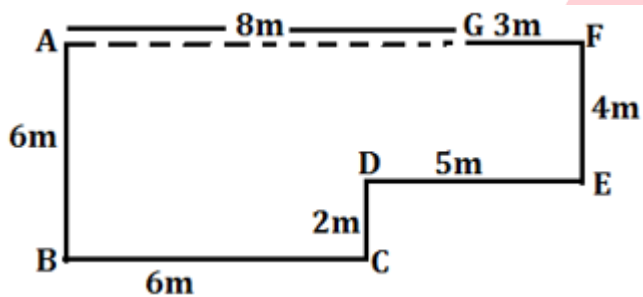
S86. Ans.(b)
Sol.

P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. There are two possible cases. Two persons sit between P and E. E faces D.
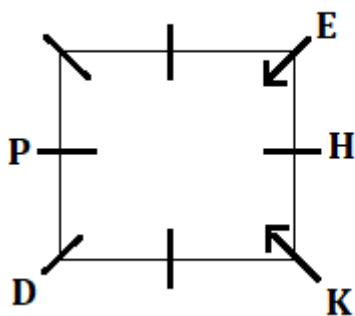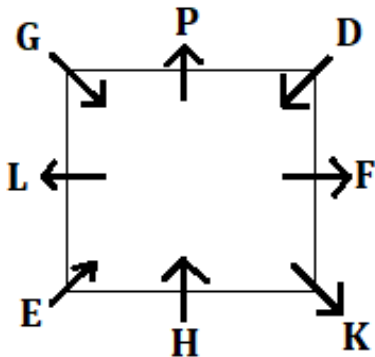
Case 1

Case 2
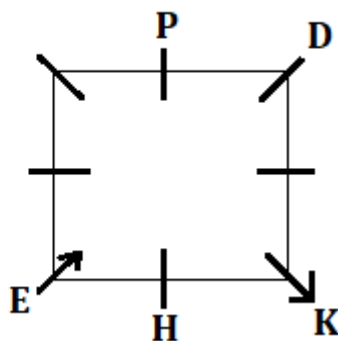
G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction. Case 1 will eliminate here.
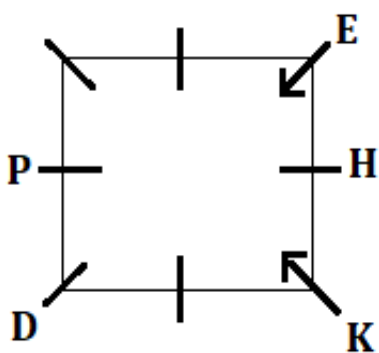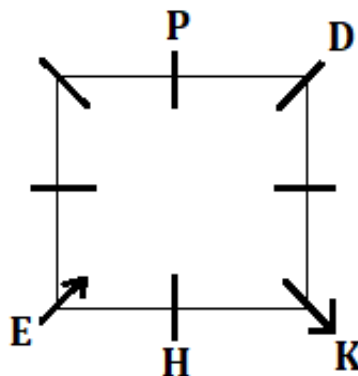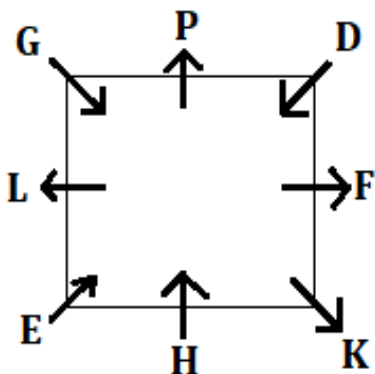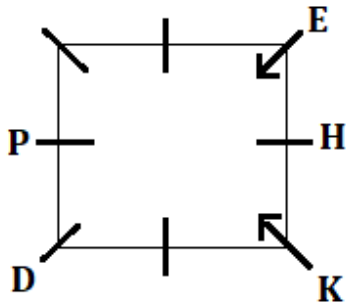So, the final arrangement is:

S87. Ans.(c)
Sol. P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. There are two possible cases. Two persons sit between P and E. E faces D.

Case 1   Case 2

G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction. Case 1 will eliminate here.
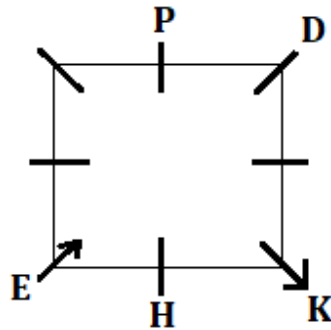So, the final arrangement is:

S88. Ans.(a)
Sol. P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. There are two possible cases. Two persons sit between P and E. E faces D.
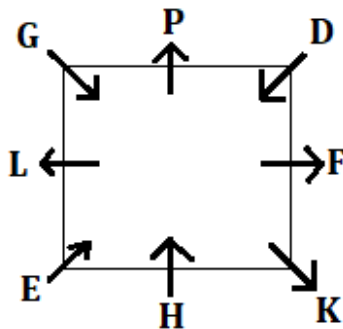
Case 1

Case 2

G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction. Case 1 will eliminate here.
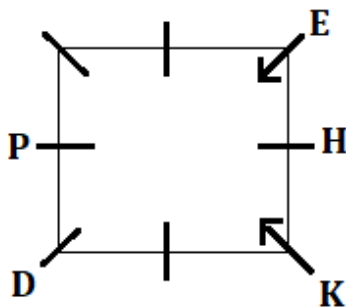
So, the final arrangement is:

S89. Ans.(d)
Sol. P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. There are two possible cases. Two persons sit between P and E. E faces D.

Case 1

Case 2

G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction. Case 1 will eliminate here.
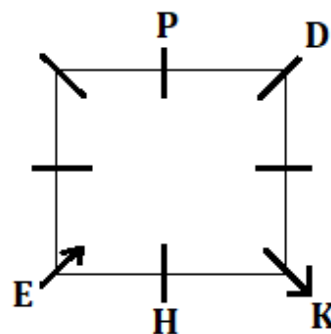
So, the final arrangement is:

S90. Ans.(e)
Sol. P sits third to the left of K. Three persons sit between H and P. H does not sit at any corner of the table. There are two possible cases. Two persons sit between P and E. E faces D.
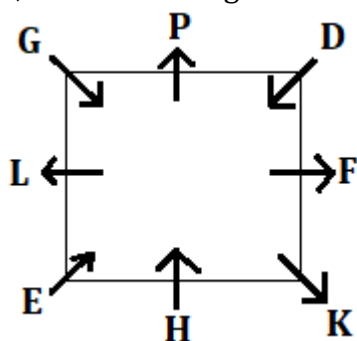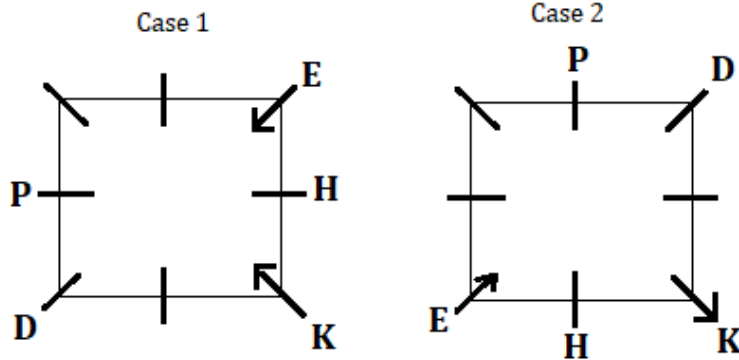

Case 1   Case 2

G and L sits just right of each other. G does not face outside. Immediate neighbours of D face the same direction as L. D and H face the same direction. Case 1 will eliminate here.
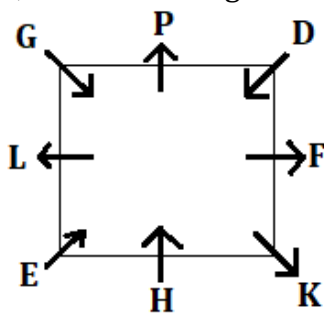So, the final arrangement is:

S91. Ans.(c)
Sol. R is senior to MD. There are two persons work between R and V. T is senior to Executive and junior to MD. There are two possible cases.

Designation	Person	
	Case 1	Case 2
CFO		R
CEO	R	
MD		
Manager	T	V
Team Leader	V	T
Executive		
Trainee		

P is junior to R. P is senior to trainee. More than three persons work between P and Q. S is just senior to Q. Case 1 will eliminate here. So, the final arrangement is:

Designation	Person
CFO	R
CEO	P
MD	U
Manager	V
Team Leader	T
Executive	S
Trainee	Q

S92. Ans.(b)

Sol. R is senior to MD. There are two persons work between R and V. T is senior to Executive and junior to MD. There are two possible cases.

Designation	Person	
	Case 1	Case 2
CFO		R
CEO	R	
MD		
Manager	T	V
Team Leader	V	T
Executive		
Trainee		

P is junior to R. P is senior to trainee. More than three persons work between P and Q. S is just senior to Q. Case 1 will eliminate here. So, the final arrangement is:

Designation	Person
CFO	R
CEO	P
MD	U
Manager	V
Team Leader	T
Executive	S
Trainee	Q

S93. Ans.(d)

Sol. R is senior to MD. There are two persons work between R and V. T is senior to Executive and junior to MD. There are two possible cases.

Designation	Person	
	Case 1	Case 2
CFO		R
CEO	R	
MD		
Manager	T	V
Team Leader	V	T
Executive		
Trainee		

P is junior to R. P is senior to trainee. More than three persons work between P and Q. S is just senior to Q. Case 1 will eliminate here. So, the final arrangement is:

Designation	Person
CFO	R
CEO	P
MD	U
Manager	V
Team Leader	T
Executive	S
Trainee	Q

S94. Ans.(c)
Sol. R is senior to MD. There are two persons work between R and V. T is senior to Executive and junior to MD. There are two possible cases.

Designation	Person	
	Case 1	Case 2
CFO		R
CEO	R	
MD		
Manager	T	V
Team Leader	V	T
Executive		
Trainee		

P is junior to R. P is senior to trainee. More than three persons work between P and Q. S is just senior to Q. Case 1 will eliminate here. So, the final arrangement is:

Designation	Person
CFO	R
CEO	P
MD	U
Manager	V
Team Leader	T
Executive	S
Trainee	Q

S95. Ans.(d)
Sol.

Words	Codes
Meeting	dgv
Check	cni
Circle	slk
Yellow	trf
Coffee	poz
Star	bnm
Line	kda
Board	lfh

S96. Ans.(c)
Sol.

Words	Codes
Meeting	dgv
Check	cni
Circle	slk
Yellow	trf
Coffee	poz
Star	bnm
Line	kda
Board	lfh

S97. Ans.(b)
Sol.

Words	Codes
Meeting	dgv
Check	cni
Circle	slk
Yellow	trf
Coffee	poz
Star	bnm
Line	kda
Board	lfh

S98. Ans.(b)
Sol.

Words	Codes
Meeting	dgv
Check	cni
Circle	slk
Yellow	trf
Coffee	poz
Star	bnm
Line	kda
Board	lfh

S99. Ans.(a)
Sol. E 8, U 3

S100. Ans.(e)
Sol. F 3 A, B 6 R, R 3 T, M 6 B