



SBI PO Pre 2022 (19th Dec) Shift Wise Previous Year Paper Mock-07

Directions (1-8): Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to aid in answering some of the questions.

In this modern era of big data, the shopping activity is modified a lot because of enormous growth in online shopping websites, also known as E-Tailers. The new age customers prefer to shop through these online portals because of various attractions in countries like India such as easy and cheap availability of the Internet. The primary reason for cheap internet is intense competition between telecoms, for instance, many telecom companies offer free unlimited internet data usage for all of its users in nominal charges. Moreover, searching a suitable E-Commerce website to best suit the customer purchase requirements is not so easy as customers are primarily dependent on conventional search engines like Google, Bing to find a suitable E-Commerce web site. However, when different users search the same E-Commerce query, even a most advanced and popular search engine retrieves the same result. Thus, irrespective of the background and personalized tastes of customer submitting the query as most of the modern search engines tend to return the results by interpreting the E-Commerce query in various possible ways.

Moreover, if the query is **ambiguous** or incomplete, then the situation will get even worse. For instance, for the incomplete E-Commerce search query "Galaxy", some customers may be interested in links to buy a new Samsung Galaxy series mobile phone, while another customer may be interested in searching links for online booking of tickets for a movie Guardians of the Galaxy Vol. 2. Hence, there is an urgent need for personalized E-Commerce search system. The personalized system may **modify** the E-Commerce search query by keeping track of customer's preferences by maintaining his/her profile, search preferences through browsing history, etc. over a period and return results in correct order of ranking with customer's relevant output links on top to best suit the customer requirements. E-Commerce data is explosively increasing on the scale of TeraBytes (TB) to PetaBytes (PB) on a daily basis due to the continuous increase in WWW traffic. This excessive online generated data is commonly known as 'Big Data' with emphasis on high values of various popular V's, i.e., Value, Velocity, Variety, Veracity, and Volume.

Q1. What has/have prompted the increase in the use of online shopping websites?

- (a) People find online shopping platforms more reliable than shopping offline.
- (b) Online shopping is preferred by consumers as it is less time-consuming.
- (c) The availability of product of various brands on the same online platform attracts consumers.
- (d) Increased accessibility and low cost of internet services has fuelled online shopping.
- (e) None of these

Q2. How do different search engines work on a particular E-commerce query?

- (a) Every search engine has a privacy policy which restricts data sharing and ensures security.
- (b) They retrieve and process data of different users to give out a result for a particular query.
- (c) Every search engine uses an algorithm to instantly determine the exact product a user wants to buy.
- (d) All search engines suggest the best product with maximum discounts when searched.
- (e) None of these





Q3. Why does the author emphasise the need for personalized E-Commerce search systems?

- (a) To merge different e-commerce platforms into a single entity which will reduce internet traffic
- (b) To eliminate the process where users need to create an ID and provide personal information
- (c) To avoid misinterpretation and to facilitate easier access to the products users require
- (d) In order to avoid pop-up notifications which users get after making a purchase
- (e) None of these

Q4. Which of the following is true regarding 'Big Data' according to the facts in the passage?

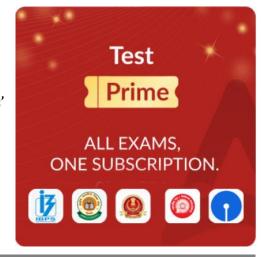
- (a) It contains data focussed highly on efficient strategies.
- (b) Excessive online generated data is called Big Data
- (c) It results from usage of traditional data processing software.
- (d) Both (a) and (b)
- (e) Both (a) and (c)

Q5. What is the major reason for cheaper internet service in India?

- (a) Indian telecommunication companies have their own satellites
- (b) There is a high number of telecommunication operating companies in India.
- (c) The operation cost of telecom companies is very low in India.
- (d) There is a stiff competition among Indian telecommunication companies.
- (e) None of these

Q6. Which of the following statements is/are incorrect as per the information given in the passage?

- (a) E-commerce data is dynamically rising on the scale of TB to PB on a daily basis.
- (b) E-Tailers, unlike physical shops, sell their products online.
- (c) Personalized E-Commerce search systems keep track of user preferences.
- (d) Google is one of the search engines often used by people for finding a suitable E-Commerce web site.
- (e) None of these
- **Q7.** Which of the following words is a synonym of 'Modern' given in the passage?
- (a) shunned
- (b) contemporary
- (c) congenital
- (d) perpetual
- (e) None of these
- **Q8.** Which of the following words is an antonym of 'Ambiguous' given in the passage?
- (a) ardent
- (b) preamble
- (c) apparent
- (d) suffice
- (e) None of these







- **Q9.** Which of the following words is a synonym of 'modify' given in the passage?
- (a) alter
- (b) expand
- (c) fix
- (d) widen
- (e) None of these
- Q10. In each of the questions given below, four sentences have been given. One out of four sentences may or may not contain an error. Find out which of the following sentence has an error. If all the sentences are error-free then choose 'All are correct' as your answer choice.
- (a) The students who went back home did not return.
- (b) The major reason behind pollution is stubble burning across the country.
- (c) Nothing is ever constants and change will always be the order of the day.
- (d) India's population is among the youngest in the world.
- (e) All are correct
- Q11. In each of the questions given below, four sentences have been given. One out of four sentences may or may not contain an error. Find out which of the following sentence has an error. If all the sentences are error-free then choose 'All are correct' as your answer choice.
- (a) Countries have announced their commitment to lofty environmental goals.
- (b) The foundation stone of the India gate was called the All India War Memorial.
- (c) Social media platforms regularly manage user content on their website.
- (d) The slowdown in investment didn't happened because companies were making losses.
- (e) All are correct
- Q12. In each of the questions given below, four sentences have been given. One out of four sentences may or may not contain an error. Find out which of the following sentence has an error. If all the sentences are error-free then choose 'All are correct' as your answer choice.
- (a) India's journey in the last years provide learning on sustaining growth in production.
- (b) The bank has added many more branches throughout the country.
- (c) Our planet is approaching tipping points that will make climate chaos irreversible.
- (d) Global energy poverty is concentrated in the developing countries.
- (e) All are correct
- Q13. In each of the questions given below, four sentences have been given. One out of four sentences may or may not contain an error. Find out which of the following sentence has an error. If all the sentences are error-free then choose 'All are correct' as your answer choice.
- (a) Subhas Bose was born into wealth and privilege in a large Bengali family.
- (b) An important issue that was not highlighted was the issue of equality.
- (c) The Black Sea Grain Deal endeavours to tackle escalating food prices.
- (d) Imports of goods appear to have grew at a far lower pace than in recent months
- (e) All are correct





Q14. In each of the questions given below, four sentences have been given. One out of four sentences may or may not contain an error. Find out which of the following sentence has an error. If all the sentences are error-free then choose 'All are correct' as your answer choice.

- (a) People's buying habits do not invariably correspond to their income level.
- (b) As children, we used to laugh hundreds of times a day.
- (c) Corruption is a struggle that a common man or woman encounters every day.
- (d) Cactus spines are produced from specialize structures called areoles.
- (e) All are correct

Directions (15-20): In the following questions, a paragraph is given. There are several words which are highlighted, each followed by a number. These words may or may not be used in their correct sense in the given paragraph. The numbers provided with these words are then followed by five options. Each option contains words that can replace the words in the paragraph. You need to find the words that can replace the highlighted words and mark them as your answers. If the word highlighted is used correctly then mark option (E) i.e. "No replacement is required" as your answer.

Q15. Print media is dying. And social media has become a **defunct (15)** platform for the exchange of what maybe widely divergent views. These are perspectives which carry factual weight. Having said this, the curation of an international online **notion (16)** has undoubtedly brought with it enhanced citizens participation across democratic processes and broader social movements – but at the same time, one feels that the role of independent media and journalism as bearers of the foundations of democratic systems, is slowly but surely **diminishing (17)**.

The good thing about social media is that everyone can have an opinion or a voice on a particular issue – which unfortunately also seems to be a bad thing in certain cases. This is where it gets **minimising** (18). On one end norms such as freedom of thought and expression are universally accepted as pillars of constitutionally democratic systems – **challenge** (19) free speech in any form is thus a touchy subject. On the other end there are those who argue that free speech has its defined limits – free speech can be censored if one is using their perspectives as a means to incite hate or violence. Policymakers have not found a **vintage** (20) answer to which of these two positions is correct and applicable in the context of a connected and deeply integrated global political order.

- (a) mobilise
- (b) traditionally
- (c) toxic
- (d) suspension
- (e) No replacement required

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- (a) ecosystem
- (b) demand
- (c) autonomous
- (d) speedy
- (e) No replacement required

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- (a) tryst
- (b) recuperate
- (c) justify
- (d) organic
- (e) No replacement required

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- (a) unreliable
- (b) tricky
- (c) beautiful
- (d) tremendous
- (e) No replacement required

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- (a) false
- (b) auspicious
- (c) costly
- (d) limiting
- (e) No replacement required

Q20. Print media is dying. And social media has become a **defunct (15)** platform for the exchange of what maybe widely divergent views. These are perspectives which carry factual weight. Having said this, the curation of an international online **notion (16)** has undoubtedly brought with it enhanced citizens participation across democratic processes and broader social movements – but at the same time, one feels that the role of independent media and journalism as bearers of the foundations of democratic systems, is slowly but surely **diminishing (17)**.

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- (a) vehemently
- (b) expansion
- (c) debarred
- (d) concrete
- (e) No replacement required

Directions (21-21): A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner.

Q21. Execute

- (i) The budget constraints **execute** the company from hiring additional employees this year.
- (ii) Every day you fail to **execute** the task, the penalty for failure worsens.
- (iii) A debtor who is not insolvent may also **execute** a deed in favor of his creditors generally.
- (a) All of these
- (b) Only (i)
- (c) Both (ii) & (iii)
- (d) Both (i) & (ii)
- (e) Only (iii)

Directions (22-25): In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your answer. If the sentences are correct then select 'No improvement required' as your answer.

Q22. Not only India but some other countries also faces the impacts of climate change.

- (a) also faces the impacts for
- (b) too faces the impacts of
- (c) also face the impacts of
- (d) also face the impacts by
- (e) No improvement required

Q23. When you will come to my house, I will cook your favorite pasta for you.

- (a) will came to my
- (b) come to my
- (c) would come to my
- (d) will come to mine
- (e) No improvement required

Q24. In the afternoon after lunch, I will let you to go back home.

- (a) you go back
- (b) you going back
- (c) you to going back
- (d) you to goes back
- (e) No improvement required





Q25. My mother **suggest to me to** study in the early morning.

- (a) suggested me
- (b) suggested to me
- (c) suggested that I should
- (d) suggested that me should
- (e) No improvement required

Directions (26-30): In each of the questions given below a sentence is given which is divided into four phrases and these phrases aren't in their correct position. Choose the option which gives the correct sequence of these phrases to make the sentence grammatically and contextually correct. If the given phrases are already at their correct positions, then choose option "no rearrangement required" as your answer choice.

Q26. the history until his tomb (A) / King Tutabkhamen was (B) / largely erased from (C) /was discovered in the 1900s (D).

- (a) DCBA
- (b) ADCB
- (c) BCAD
- (d) CDBA
- (e) No rearrangement required

Q27. including the creation of wealth and its (A) /several dimensions of transformation, (B) / the concept of development involves (C) / equal distribution to reduce poverty (D).

- (a) DCBA
- (b) ADCB
- (c) BDCA
- (d) CBAD
- (e) No rearrangement required

Q28. when there is a problem with (A) / for maintaining fluid levels (B) / one or more of the body's mechanisms (C) / water retention occurs (D)

- (a) DACB
- (b) ADCB
- (c) BDCA
- (d) CDBA
- (e) No rearrangement required

Q29. People feel uncomfortable (A) / is a boon as it saves lot of time (B) / crowded markets. So, E-Shopping (C) / and time consuming for going (D).

- (a) DCBA
- (b) ADCB
- (c) BDCA
- (d) CDBA
- (e) No rearrangement required





Q30. through which a dancer (A) / classical dance is a (B) / can reach the Almighty (C) / form of worship (D).
(a) DCBA
(b) ADCB
(c) BDAC
(d) CDBA
(e) No rearrangement required
(-)
Q31. In an alloy 'A', zinc & copper is in the ratio of 1:1. In the second alloy 'B', the same elements are in the ratio 3:5. If these two alloys mixed to form a new alloy in which zinc and copper is in
the ratio 2: 3, find the ratio in which alloy 'A' and alloy 'B' are mixed?
(a) 2:3
(b) 3:2
(c) 1:4
(d) 4:1
(e) 3:1
Q32. A boat can row to a place 56 km away and come back in 22 hours. The time to row 21 km
with the stream is same as the time to row 12 km against the stream. Find the speed of boat in
still water?
(a) 1.5 kmph
(b) 3.5 kmph
(c) 5.5 kmph
(d) 7.5 kmph
(e) 6 kmph
Q33. Present age of Ram is three times of his son's present age and two-third of his father's
present age. At present, the average age of all of them is 34 years. What is the difference between
present age of Ram's son and his father's age?
(a) 36 yrs
(b) 42 yrs
(c) 48 yrs
(d) 54 yrs
(e) 52 yrs
Q34. Ritu and Priya invested in the ratio 7:8 in a business. They got an annual profit of Rs 34450. If Ritu withdrew her entire amount at the end of 9 months. Then find the difference between
their share in profit?
(a) Rs 6400
(b) Rs 8180
(c) Rs 7150
(d) Rs 8400

(e) Rs 7560





Q35. A person covers 132 km distance in 't' hours by travelling some distance by car and some by train and speed of train is 20% more than Speed of car. If ratio of distance travelled by car and train is 4:7 and car covers 48 km distance with 24 km/h speed in (t+0.5) hours ,then find speed of train(approximately)?

- (a) 100km/h
- (b) 94 km/h
- (c) 80 km/h
- (d) 110 km/h
- (e) 120km/h

Q36. Karan invested a sum of money 'P' for two years in scheme A at 20% p.a. on compound interest. The amount received at end of two years from scheme A, reinvested in scheme B for 4 years that offers 25% p.a. on simple interest. If total interest received from scheme B is Rs 16500 more than P, then find 'P'?

- (a) Rs 35500
- (b) Rs 27500
- (c) Rs 34500
- (d) Rs 37500
- (e) Rs. 32500

Q37. S_1 is a series of five consecutive multiples of 4 whose sum is 100. S_2 is a series of 4 consecutive even integers such that the second smallest number of S_2 is 6 less than largest number of S_1 . Find average of series S_2 .

- (a) 28
- (b) 25
- (c) 32
- (d) 34
- (e) 23

Q38. 20 men and 35 women can complete a piece of work in 'y' and 'y - 3' days respective while 15 men and 20 women can complete same piece of work in 'x - 4' and 'x' days respectively. If each man are 60% more efficient than each woman, then find difference between x and y.

- (a) 11
- (b) 21
- (c) 14
- (d) 12
- (e) 15

Q39. The area of rectangular field of length 90 m and breadth 80 m is equal to the area of a square plot. What will be the length of the diagonal of the square plot?

- (a) 120 m
- (b) 100 m
- (c) 90 m
- (d) 105 m
- (e) 110 m





Q40.Train 'A' takes 2 hours more than train 'B' to cover certain distance 'X' while train 'A' can cover (X + 160) is 8 hours. If speed of train 'B' is 1.5 times of speed of train 'A', then find the speed of train 'B'.

- (a) 80 km/hr
- (b) 120 km/hr
- (c) 16 km/hr
- (d) 40 km/hr
- (e) 60 km/hr

Q41. Average salary of Santosh and Renu is Rs 3600. If salary of Santosh and Renu is increased by 50% and 30% respectively, then their total salary is increased by 35%. Find salary of Renu is what percent more or less than salary of Santosh before increment?

- (a) 250%
- (b) $233\frac{1}{3}\%$
- (c) $166\frac{2}{3}\%$
- (d) 225%
- (e) 200%

Directions (42-46): In each question two equations numbered (I) and (II) are given. You have to solve both the equations and mark appropriate answer.

Q42.

I.
$$2x^2 - 17x + 36 = 0$$

II.
$$3y^2 - 22y + 40 = 0$$

- (a) If x < y
- (b) If x > y
- (c) If $x \ge y$
- (d) If $x \leq y$
- (e) If x = y or no relation can be established.

Q43.

I.
$$x^2 + 21x + 108 = 0$$

II.
$$y^2 + 14y + 48 = 0$$

- (a) If x < y
- (b) If x > y
- (c) If $x \ge y$
- (d) If $x \le y$
- (e) If x = y or no relation can be established.





Q44.

I.
$$2x^2 + 7x - 60 = 0$$

II.
$$3y^2 - 28y + 64 = 0$$

- (a) If x < y
- (b) If x > y
- (c) If $x \ge y$
- (d) If $x \leq y$
- (e) If x = y or no relation can be established.

Q45.

I.
$$x^2 - 2x - 24 = 0$$

II.
$$y^2 + 3y - 40 = 0$$

- (a) If x < y
- (b) If x > y
- (c) If $x \ge y$
- (d) If $x \leq y$
- (e) If x = y or no relation can be established.

Q46.

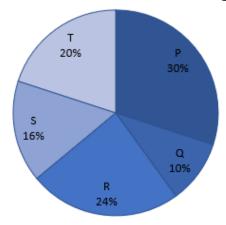
I.
$$x^3 = 729$$

II.
$$y^2 - 15y + 54 = 0$$

- (a) If x < y
- (b) If x > y
- (c) If $x \ge y$

(d) If $x \leq y$ (e) If x = y or no relation can be established.

Directions (47-52): The pie chart given below shows the percentage distribution of total Pizza sold by five (P, Q, R, S and T) different outlets of 'Pizza hut' in 2017. Study the pie chart given below and answer the following questions.







Note: I- Total Pizza sold by these five outlets in 2018 is 40% more than total Pizza sold by these five outlets in 2017.

II -Percentage distribution of total Pizza sold by these five outlets in 2018 is same as that of in 2017.

Q47. If total Pizza sold by P in 2017 are 1800 less than total Pizza sold by R in 2018, then	find
total Pizza sold by P and Q together in 2018.	

- (a) 28000
- (b) 32000
- (c) 26000
- (d) 30000
- (e) 34000

Q48. Total Pizza sold by S and T together in 2018 are what percent (Approx.) more or less than total Pizza sold by Q and R together in 2017?

- (a) 41%
- (b) 45%
- (c) 46%
- (d) 43%
- (e) 48%

Q49. If total Pizza sold by P in 2018 are 5400 more than total Pizza sold by R in 2017 and selling price of each Pizza of Q in 2018 is Rs.40, then find the total revenue of Q in 2018.

- (a) Rs.150000
- (b) Rs.156000
- (c) Rs.168000
- (d) Rs.174000
- (e) Rs.162000

Q50. Find ratio of average number of Pizza sold by R, S and T in 2017 to total Pizza sold by P and Q together in 2018.

- (a) 9:11
- (b) 11:9
- (c) 5:14
- (d) 14:5
- (e) None of the above.

Q51. Total Pizza sold by P, R and S together in 2018 are what percent of total Pizza sold by P and Q together in 2017?

- (a) 265%
- (b) 275%
- (c) 255%
- (d) 245%
- (e) 285%





Q52. In 2018, total pizzas sold by shop T to males and females are in the ratio 4:3 respectively. If the difference between total pizzas sold by shop T to males and females is 12, then find the number of pizzaz sold by Q in 2017.

- (a) 26
- (b) 27
- (c) 25
- (d) 24
- (e) 30

Directions (53-55): Read the following data carefully and answer the following question.

There are 210 persons in a party, and all of them eat three different types of flavoured icecreams. 40 people eat only butterscotch, 30 people eat all three flavoured icecream, there are total 130 people who eat butterscotch and 100 people who eat vanila. 40 people eat butterscotch and vanila only, 10 people eat chocolate and vanila only.

Q53. What is number of people who eat only Chocolate?

- (a) 50
- (b) 40
- (c)30
- (d) 60
- (e)70

Q54. People eating chocolate and butterscotch only are what percent of people eating only butterscotch?

- (a) 50%
- (b) 60%
- (c) 25%
- (d) 30%
- (e) 40%

Q55.Number of people eating only vanilla is how much less than the people eating all three types of ice-creams?

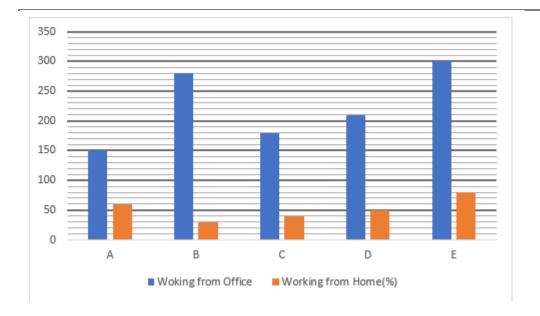
- (a) 15
- (b) 20
- (c) 30
- (d) 10
- (e) 25

Directions (56-60): Read the bar graph carefully and answer the following questions.

The bar graph given below shows the no. of employees working from Office and percentage of employees working from home out of total employee in five different companies.

Number of employees working in any company = Employees working from Office + Employees working from Home





Q56. Number of employee who are working from Home in company B and D together are what percentage more/less than number of employees working from Office in company C.

- (a) $\frac{220}{3}$ %
- (b) $\frac{250}{3}$ %
- (c) $\frac{260}{3}$ %
- (d) $\frac{280}{3}$ %
- (e) $\frac{200}{3}$ %

Q57. Find the average number of employees working from Home in company A, C and D.

- (a) 165
- (b) 175
- (c) 185
- (d) 195
- (e) 205

Q58. Total employee working in company A is what percentage of employee working in company B.

- (a) 93.75%
- (b) 82.5%
- (c) 72.25%
- (d) 97.25%
- (e) 87.75%

Q59. Number of employees working in company X are 40% more than that in company D. Find the difference between number of employees working from Home and employees working from Office in company X, if ratio of employee working from home to that from office in company X is 11: 17.





- (a) 144
- (b) 118
- (c) 136
- (d) 126
- (e) 112

Q60. Find the ratio of number of employees working from Home in company E to that in company C.

- (a) 8: 5
- (b) 10:1
- (c) 3: 5
- (d) 15:8
- (e) 1:12

Directions (61-65): Find the wrong number in following number series.

Q61. 5, 43, 70, 88, 99, 104, 108

- (a) 104
- (b) 5
- (c) 99
- (d) 70
- (e) 88

Q62. 4, 9, 18, 35, 69, 139, 277

- (a) 4
- (b) 9
- (c) 18
- (d) 35
- (e)69

Adda 247

Q63. 5, 7, 17, 47, 115, 235, 467

- (a) 5
- (b) 7
- (c) 17
- (d) 235
- (e) 115

Q64. 12, 72, 360, 1440, 4330, 8640, 8640

- (a) 12
- (b) 72
- (c) 360
- (d) 1440
- (e) 4330





Q65. 17, 22, 32, 47, 67, 93, 122

- (a) 93
- (b) 22
- (c) 32
- (d) 17
- (e) 67

Q66. In the word 'ENVIRONMENT', if all the consonants are replaced with their immediate previous letter and all the vowels are replaced with their immediate next letter according to alphabetical series, then how many vowels are there in the new word formed after the rearrangement?

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

Directions (67-69): Study the following information carefully and answer the questions given below:

Six persons sit around a circular table but not necessarily in the same order. Three of them face inside while rest three face outside the centre. All of them get different marks in an examination viz. 16, 18, 20, 25, 27 and 36 but not in the same order as given.

T sits second to the right of O and gets the marks which is a cube of a number. One person sits between T and X who faces the same direction as O. The one who gets double the marks of O is an immediate neighbour of T. L sits second to the right of R who gets 7 marks less than T. L does not get the highest marks. R and O face opposite directions. Immediate neighbours of R facing the same direction. K is not an immediate neighbour of X. The one who gets 16 marks sits second to the right of T but immediate left of the one who gets 25 marks. R doesn't face inside

Q67. Who among the following sits second to the right of the one who gets 25 marks?

- (a) R
- (b) 0
- (c) K
- (d) T
- (e) None of these

Q68. What is the difference between the marks got by X and O?

- (a) 7
- (b) 4
- (c) 5
- (d) 2
- (e) None of these





Q69. Who among the following sits second to the left of the one who gets fourth lowest marks? (a) 0 (b) R (c) K (d) T (e) None of these
Q70. If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 39225685459, then how many digits will appear more than twice in the new number thut formed? (a) One (b) Two (c) Three (d) None (e) Four
Directions (71-75): Study the following information carefully and answer the question gives below: Seven persons sit in a row facing to the south and they all have different ages. E sits 2 nd from one of the extreme ends. Three persons sit between E and the one who is 25 years old. The one who is 25 years old is the only neighbour of A. D sits to the right of C. The Age of D is equal to the total age of his immediate neighbours. C is 15 years old and sits 3 rd to the right of E. B is 10 years older than A and 1 years younger than G who sits at one of the extreme ends. F sits to the right of B who is 1 year younger than E whose age is thrice of age of F.
Q71. What is the sum of the ages of F and G? (a) 45 years (b) 37 years (c) 30 years (d) 22 years (e) None of these
Q72. Who among the following sits 3 rd to the left of F? (a) G (b) E (c) B (d) None of these (e) C
Q73. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group? (a) D (b) F (c) C (d) E (e) A





Q74. __ sits 2nd to the right of the one who is __ years old.

- (a) A, 15
- (b) F, 25
- (c) B, 30
- (d) G, 20
- (e) Both (a) and (c)

Q75. What is the sum of the ages of D, F and E?

- (a) 57 years
- (b) 53 years
- (c) 42 years
- (d) 38 years
- (e) None of these

Directions (76-80): Study the following information carefully and answer the questions given below:

Nine boxes are placed one above the other. The bottommost shelf is numbered as 1 and just above it is numbered as 2 and so on till the topmost shelf is numbered as 9.

Box C is placed at the position which is a multiple of 3. Three boxes are placed between Box C and Box H. There are as many boxes placed below Box H as above Box L. Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E. More than two boxes are placed between Box M and Box B. Box F is placed above Box M.

Q76. How many boxes are placed between Box E and Box F?

- (a) None
- (b) Two
- (c) Four
- (d) Five
- (e) Three

Q77. How many boxes are placed below Box M?

- (a) Three
- (b) Five
- (c) Four
- (d) One
- (e) None

Q78. How many boxes are placed between Box H and Box C?

- (a) None
- (b) Two
- (c) Four
- (d) Five
- (e) None of these





Q79. The number of boxes placed between Box D and Box M is half of the number of boxes plac	ed
above Box	

- (a) Box F
- (b) Box E
- (c) Box L
- (d) Box B
- (e) Box C

Q80. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?

- (a) Box E
- (b) Box H
- (c) Box L
- (d) Box C
- (e) Box G

Q81. If we form a five-letter meaningful word by using the 2^{nd} , 5^{th} , 6^{th} , 7^{th} and 11^{th} letter from the left end of the word 'APPLICATION' (Using each letter once), then which of the following will be the fourth letter of the meaningful word thus formed. If more than one word is formed then mark Z as your answer. If no meaningful word is formed, mark X as your answer.

- (a) N
- (b) I
- (c) C
- (d) X
- (e) Z

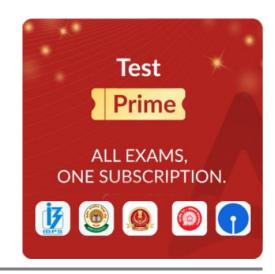
Directions (82-83): Study the following information carefully and answer the related questions. There are seven members in a family of three generations. There is no single parent in the family. J is the father-in-law of N who is the father of both R and X. O is the mother of S. A is the only son of J. Female members are more than male members.

Q82. How R is related to O?

- (a) Grandson
- (b) Granddaughter
- (c) Daughter-in-law
- (d) Sister
- (e) Son-in-law

Q83. How A is related to X?

- (a) Brother
- (b) Paternal Uncle
- (c) Maternal Uncle
- (d) Brother-in-law
- (e) None of these







Directions (84-87): Study the following information carefully and answer the questions given below:

A certain number of persons sit in a row facing north direction. Two persons sit between N and Q who is the only neighbour of B. W sits 5^{th} to the left of L who sits immediately right of N. W sits exactly middle of the row. The number of persons sit between W and N is the same as the number of persons sit between W and T. Z sits 2^{nd} to the right of H. Three person sits between T and H. O sits just left of A and just right of E who doesn't sit adjacent to W.

Q84. How many persons sit in the row?

- (a) 15
- (b) 21
- (c) 19
- (d) 17
- (e) Can't be determined

Q85. How many persons sit between E and W?

- (a) None
- (b) Three
- (c) Five
- (d) Two
- (e) More than five

Q86. The number of persons sit between H and N is

- (a) Multiple of 5
- (b) Prime number
- (c) Even Number
- (d) Multiple of 6
- (e) Can't be determined

Q87. Which of the following pair of persons are adjacent to each other?

- (a) A, T
- (b) E, N
- (c) L, E
- (d) None of these
- (e) T, E

Directions (88-90): Study the following information carefully and answer the questions given below:

Six pairs of shoes are arranged in a shoe rack according to their length from left to right. Shoe A is shorter than only Shoe K and Shoe L. Shoe S is longer than Shoe B and shorter than Shoe Z. The Length of Shoe K is 52cm and the length of Shoe Z is 46cm. The length of shoe L is 55cm.





Q88. Which of the following shoes is 2nd shortest?

- (a) Shoe Z
- (b) Shoe S
- (c) Shoe B
- (d) Either shoe S or shoe B
- (e) Either shoe Z or shoe B

Q89. What will the possible Length of Shoe A?

- (a) 44cm
- (b) 40cm
- (c) 50cm
- (d) 59cm
- (e) Can't be determined

Q90. If the length of Shoe Z is 35cm, then what will be the difference between the length of Shoe K and Shoe Z?

- (a) 27cm
- (b) 15cm
- (c) 26cm
- (d) 17cm
- (e) None of these

Directions (91-95): Study the following information carefully and answer the questions given below:

Eight persons P, Q, R, S, T, U, V and W (but not necessarily in the same order) were born on the 21st of eight different months i.e., January, February, March, April, May, June, July and August of the same year. Four persons were born between R and W who was born just after S. R and T were born in the adjacent month having 31 days. P was born three months before V. U was neither born in May nor in June.

Q91. How many persons were born between Q and S?

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

Q92. Who among the following was born in April?

- (a) W
- (b) P
- (c) Q
- (d) U
- (e) None of these





${f Q93}.$ Four of the following five are alike in a certain way and thus form a group, then who amo	ng
the following doesn't belong to that group?	

- (a) R
- (b) S
- (c) P
- (d) V
- (e) T

Q94. Who among the following was born two months after W?

- (a) V
- (b) U
- (c) Q
- (d) None of these
- (e) P

Q95. Q was born in _____ month.

- (a) April
- (b) February
- (c) March
- (d) May
- (e) July

Directions (96-100): In the question below three statements are given followed by two 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.

Q96.

Statements:

Only a few Gun is Point

No Point is Pin

All Pin is Glue

Conclusions:

- I. Some Glue is not Point
- II. Some Gun is not Pin.
- (a) Only conclusion I follow
- (b) Only conclusion II follow
- (c) Either conclusion I or II follows
- (d) Both conclusions I and II follow
- (e) Neither conclusion I nor II follows





Q97.

Statements:

Each Moon is Night

80% Night is Good

Only a few Good is Morning

Conclusions:

- I. Some Moon is Good
- II. All Morning can be Night
- (a) Only conclusion I follow
- (b) Only conclusion II follow
- (c) Either conclusion I or II follows
- (d) Both conclusions I and II follow
- (e) Neither conclusion I nor II follows

Q98.

Statements:

Some M are K.

All K are N.

No N is S.

Conclusions:

- I. Some M are N
- II. No S is K
- (a) Only conclusion I follow
- (b) Only conclusion II follow
- (c) Either conclusion I or II follows
- (d) Both conclusions I and II follow
- (e) Neither conclusion I nor II follows



Statements:

A few 345 are 836

Only 836 is 912

No 345 is 523

Conclusions:

- I. Some 523 can be 836
- **II.** A few 912 is 345
- (a) Only conclusion I follow
- (b) Only conclusion II follow
- (c) Either conclusion I or II follows
- (d) Both conclusions I and II follow
- (e) Neither conclusion I nor II follows







Q100.

Statements:

All God is Pod Mostly Pod is Good No Good is Pond

Conclusions:

I. Some God is Pond

- II. No Pod is Pond
- (a) Only conclusion I follow
- (b) Only conclusion II follow
- (c) Either conclusion I or II follows
- (d) Both conclusions I and II follow
- (e) Neither conclusion I nor II follows

Solutions

S1. Ans.(d)

Sol. By referring to the starting lines of the first paragraphs which mention, "In this modern era of big data, the shopping activity is modified a lot because of enormous growth in online shopping websites, also known as E-Tailers. The new age customers prefer to shop through these online portals because of various attractions in countries like India such as easy and cheap availability of the Internet," we can deduce that option (d) is the correct choice.

S2. Ans.(b)

Sol. To validate the answer, refer to the first paragraph which mentions, "Moreover, searching a suitable E-Commerce website to best suit the customer purchase requirements is not so easy as customers are primarily dependent on conventional search engines like Google, Bing to find a suitable E-Commerce web site. However, when different users search the same E-Commerce query, even a most advanced and popular search engine retrieves the same result."

S3. Ans.(c)

Sol. To validate the answer, refer to the first and second paragraphs which mentions, "Thus, irrespective of the background and personalized tastes of customer submitting the query as most of the **modern** search engines tend to return the results by interpreting the E-Commerce query in various possible ways.

Moreover, if the query is ambiguous or incomplete, then the situation will get even worse. For instance, for the incomplete E-Commerce of ranking with customer's relevant output links on top to best suit the customer requirements."

S4. Ans.(d)

Sol. The correct choice is option (d) which can be validated by referring lines, "E-Commerce data is explosively increasing on the scale of TeraBytes (TB) to PetaBytes (PB) on a daily basis due to the





continuous increase in WWW traffic. This excessive online generated data is commonly known as 'Big Data' with emphasis on high values of various popular V's, i.e., Value, Velocity, Variety, Veracity, and Volume."

S5. Ans.(d)

Sol. To validate the answer, refer to the first paragraph which mentions, "The primary reason for cheap internet is intense competition between telecoms, for instance, many telecom companies offer free unlimited internet data usage for all of its users in nominal charges."

S6. Ans.(e)

Sol. All the given statements are true.

For option (a) , refer to the second paragraph which mentions, "E-Commerce data is explosively increasing on the scale of TeraBytes (TB) to PetaBytes (PB) on a daily basis due to the continuous increase in WWW traffic."

For option (b), refer to the first paragraph which mentions, "In this modern era of big data, the shopping activity is modified a lot because of enormous growth in online shopping websites, also known as E-Tailers."

For option (c), refer to the second paragraph which mentions, "The personalized system may modify the E-Commerce search query by keeping track of customer's preferences by maintaining his/her profile"

For option (d) , refer to the first paragraph which mentions, "Moreover, searching a suitable E-Commerce website to best suit the customer purchase requirements is not so easy as customers are primarily dependent on conventional search engines like Google, Bing to find a suitable E-Commerce web site."

S7. Ans.(b)

Sol. 'Contemporary' is a synonym of 'modern'.
shunned means persistently avoided, ignored, or rejected.
contemporary means belonging to or occurring in the present.
congenital means (of a disease or physical abnormality) present from birth.
perpetual means never ending or changing.

S8. Ans.(c)

Sol. 'Apparent' is an antonym of 'ambiguous' ambiguous means not clear or decided. ardent means very enthusiastic or passionate. preamble means a preliminary or preparatory statement; an introduction. apparent means clearly visible or understood; obvious. suffice means be enough or adequate.

S9. Ans.(a)

Sol. 'alter' is a synonym of 'modify'.

Modify: To make changes or alterations to something in order to improve, adapt, or customize it according to specific requirements or preferences.





Alter: To make changes or modifications to something, typically with the intention of improving or adjusting it according to specific needs or preferences.

Expand: To increase the size, scope, or extent of something.

Fix: To repair, mend, or resolve something that is broken, damaged, or not functioning correctly.

Widen: To make broader or more extensive.

S10. Ans.(c)

Sol. The error is in option (c). Here 'constants' should be replaced with 'constant' as we need adjective here and adjectives aren't used in the plural form.

S11. Ans.(d)

Sol. The error is in option (d) . Here, 'happened' should be replaced with 'happen' because verb after 'do/does/did' is always is in base form.

S12. Ans.(a)

Sol. The error is in option (a) . Here, verb 'provide' should be replaced with 'provides' for singular noun 'Journey'.

S13. Ans.(d)

Sol. The error is in option (d) . Here, 'grew' should be replaced with 'grown' as we need past participle of verb after 'have' while grew is second form of the verb.

S14. Ans.(d)

Sol. The error is in option (d). Here, verb 'specialize' should be replaced with 'specialized' (adjective).

\$15. Ans.(c)

Sol. The given sentence talks about the fact that digital media has become a medium to represent widely divergent views. Therefore, the highlighted word 'defunct doesn't fit contextually and needs to be changed. Its correct replacement is thus 'toxic'.

mobilise: to organise people or things to do something

traditionally: as part of a long-established custom, practice, or belief; typically

toxic: poisonous.

suspension: delaying something for a period of time

Further, "typically" is an adverb and cannot be used as an adjective is required to define the noun "social media".

\$16. Ans.(a)

Sol. The given sentence talks about the fact that the curation of an international online network has undoubtedly brought with it enhanced citizens participation across democratic processes and broader social movements. Therefore the highlighted word 'notion' doesn't fit contextually and needs to be changed. Its correct replacement is thus 'ecosystem', because an ecosystem is a system controlled by flow of various components like data etc.

autonomous: independent and having the powers to make decision for oneself

notion: a conception of or belief about something

speedy: done or occurring quickly





S17. Ans.(e)

Sol. The word used is correct contextually and grammatically and no replacement of the word is required. Hence, option (e) is the correct answer choice.

S18. Ans.(b)

Sol. The given sentence talks about the fact that everyone seems to have an opinion on social media which sometimes is a bad thing and can get tricky. Therefore the highlighted word 'minimising' doesn't fit contextually and needs to be changed. Its correct replacement is thus 'tricky'.

unreliable: not able to be relied upon tricky: difficult to do or deal with

tremendous: very great in amount, scale or intensity

S19. Ans.(d)

Sol. The given sentence talks about the fact that limiting free speech is a touchy subject because freedom of speech and expression is a very important pillar of democracy. Therefore, the highlighted word 'challenge' doesn't fit contextually and needs to be changed. Its correct replacement is thus 'limiting'.

false: not according with truth or fact

costly: expensive; costing a lot

auspicious: that seems likely to be successful in future limiting: putting limits on what can happen or is possible

S20. Ans.(d)

Sol. The given sentence talks about the fact that free speech can be censored if one is using it as a means to incite hate or violence. The other means is to promote freedom. Policymakers have not found a definite answer to which of these perspectives is correct. Therefore, the highlighted word 'vintage' doesn't fit contextually and needs to be changed. Its correct replacement is thus 'concrete'.

vehemently: in a forceful, passionate or intense manner

expansion: the increase of something in size, number or importance

debarred: exclude or prohibit someone officially from doing something

concrete: real and definite, not existing in imagination

S21. Ans.(c)

Sol. The word 'execute' means 'put (a plan, order, or course of action) into effect' and sentence (ii) and sentence (iii) have its correct usage.

S22. Ans.(c)

Sol. The given highlighted phrase needs to be replaced. When we use 'not only.....but also' we always use verb according to second noun (countries). Hence, verb 'faces' should be plural. The correct preposition to be used is 'of'.

S23. Ans.(b)

Sol. The given highlighted phrase needs to be replaced. When we have two events in the future, we use simple present tense for conditional or subordinate clause (that starts with when, if, before, after, until). Only principal clause will be in future tense. Hence option (b) is the correct choice.





S24. Ans.(a)

Sol. The given phrase is incorrect. When won't use 'to' after 'let'. The correct structure of sentence is 'Let+ Subject+ V1'. Therefore, the correct option (b) is the correct choice.

S25. Ans.(c)

Sol. The given phrase is incorrect because after 'proposed/ suggested' we use 'that+ subject+ should+ v1'.

S26. Ans.(c)

Sol. The correct rearrangement of the phrases is BCAD. Therefore, the sentence will be, "King Tutabkhamen was largely erased from the history until his tomb was discovered in the 1900s."

S27. Ans.(d)

Sol. The correct rearrangement of the phrases is CBAD. Therefore, the sentence will be, "The concept of development involves several dimensions of transformation, including the creation of wealth and its equal distribution to reduce poverty."

S28. Ans.(a)

Sol. The correct rearrangement of the phrases is DACB. Therefore, the sentence will be, "Water retention occurs when there is a problem with one or more of the body's mechanisms for maintaining fluid levels."

S29. Ans.(b)

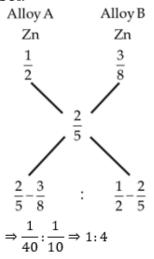
Sol. The correct rearrangement of the phrases is ADCB. Therefore, the sentence will be, "People feel uncomfortable and time-consuming for going crowded markets so e-shopping is a boon as it saves lot of time"

S30. Ans.(c)

Sol. The correct rearrangement of the phrases is BDAC. Therefore, the sentence will be, "Classical dance is a form of worship through which a dancer can reach the Almighty"

S31. Ans.(c)

Sol.







S32. Ans.(c)

Sol. Let speed of boat in still water be $x \, km/hr$ and speed of stream be $y \, km/hr$

$$\frac{56}{x+y} + \frac{56}{x-y} = 22$$

$$56 \left[\frac{1}{x+y} + \frac{1}{x-y} \right] = 22$$

Also,

$$\frac{21}{x + y} = \frac{12}{x - y}$$

$$7x - 7y = 4x + 4y$$

$$3x = 11y$$

$$y = \frac{3}{11}x$$

From (i) & (ii)

$$56\left[\frac{1}{x + \frac{3}{11}x} + \frac{1}{x - \frac{3}{11}x}\right] = 22$$

$$56\left[\frac{11}{14x} + \frac{11}{8x}\right] = 22$$

$$\frac{56 \times 11}{2} \left[\frac{1}{7x} + \frac{1}{4x} \right] = 22$$

$$14 \times \frac{11}{28x} = 1$$

$$x = \frac{11}{2} = 5.5 \text{ km/h}$$

S33. Ans.(b)

Sol. Let Ram's present age be x, his son's age be y, his father's age be z.

$$x = 3y$$

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

$$\frac{x+y+z}{3} = 34$$

$$x + \frac{x}{3} + \frac{3}{2}x = 102$$

$$6x + 2x + 9x = 102 \times 6$$

$$17x = 102 \times 6$$

$$x = 36$$

$$y = \frac{x}{3} = 12$$

$$z = \frac{3}{2}x = \frac{3}{2} \times 36 = 54$$

$$\Rightarrow$$
 y -z = 54 - 12 = 42 years





S34. Ans.(c)

Sol.

Let Ritu's investment be 7x and Priya's investment be 8x

Ratio of their profit =
$$\frac{7x \times 9}{8x \times 12}$$
 = 21 : 32

Difference between their shares in profit = $\frac{32-21}{32+21} \times 34450$

$$= \frac{11}{53} \times 34450$$
$$= 7150$$

S35. Ans.(b)

Sol.

Distance travelled by train = $\frac{7}{11} \times 132 = 84 \text{ km}$

Distance travelled by
$$Car = \frac{4}{11} \times 132 = 48 \text{ km}$$

Let speed of car be x

Speed of train =
$$\frac{120}{100}$$
x = $\frac{6}{5}$ x

$$\frac{84}{\frac{6}{5}x} + \frac{48}{x} = t$$
 ... (i)

$$\frac{48}{24} = t + \frac{1}{2}$$

$$t + \frac{1}{2} = 2$$

$$t = \frac{3}{2} hr.$$
 ... (ii)

From (i) & (ii)

$$x = \frac{236}{3} \, \text{km/h}$$

$$\therefore \text{ Speed of train} = \frac{6}{5}x$$

$$=\frac{6}{5} \times \frac{236}{3} = 94.4 \text{ km/h}$$
 Approx. 94 km/h

S36. Ans.(d)

Sol.

ATQ,

Amount invested in scheme
$$B = P \left[1 + \frac{20}{100} \right]^2 = \frac{36P}{25}$$

Also

$$SI = \frac{36P \times 25 \times 4}{25 \times 100} = \frac{36P}{25}$$

$$\frac{36P}{25} - P = 16500$$

$$\frac{11P}{25} = 16500$$

$$P \Rightarrow 1500 \times 25$$



\$37. Ans.(e)

Sol. Let five consecutive multiples of 4 be 4(x-2), 4(x-1), 4x, 4(x+1), 4(x+2)

ATQ,

$$4(x-2) + 4(x-1) + 4x + 4(x+1) + 4(x+2) = 100$$

20x = 100

x=5

∴ S₁ series is 12, 16, 20, 24, 28

Let S2 series be

now,

ATQ,

$$y = 28 - 6 = 22$$

Required average = $\frac{20+22+24+26}{4} = \frac{92}{4} = 23$

S38. Ans.(a)

Sol.

ATQ,

$$20M \times y = 35W \times (y - 3)$$

...(i) (Here, M denotes men and W denotes women)

$$15M \times (x - 4) = 20W \times (x)$$

..(ii)

Also,

$$1M = \frac{160}{100}W$$

$$1M = \frac{8}{5}W$$

...(iii)

From (i) & (iii), y = 35

From (ii) & (iii), x = 24

$$y - x = 35 - 24 = 11$$

\$39. Ans.(a)

Sol.

Area of rectangular field = area of square

$$90 \times 80 = a^2$$

$$a = 60\sqrt{2} \text{ m}$$

Diagonal of square = $\sqrt{2}a = 120 \text{ m}$

S40. Ans.(b)

Sol.

Let speed of train 'A' = s km/hr

And, speed of train 'B' = 1.5s km/hr

ATQ,

$$2 = \frac{x}{s} - \frac{x}{1.5s}$$

And,
$$\frac{X+160}{8} = s$$

On solving (i) & (ii)

s = 80 kmph

So, speed of train 'B' = 120 kmph



S41. Ans.(e)

Sol.

Let salary of Santosh Rs x Then salary of Renu= Rs (7200-x) ATQ, $x \times 1.5 + (7200 - x) \times 1.3 = 7200 \times 1.35$ x = 1800

Salary of Santosh= Rs 1800 Salary of Renu= Rs 5400

Required $\% = \frac{3600}{1800} \times 100 = 200\%$

S42. Ans.(c)

Sol.

I.
$$2x^2 - 17x + 36 = 0$$

 $2x^2 - 8x - 9x + 36 = 0$
 $2x(x - 4) - 9(x - 4) = 0$
 $(2x - 9)(x - 4) = 0$
 $x = \frac{9}{2}$,4
II. $3y^2 - 22y + 40 = 0$
 $3y^2 - 12y - 10y + 40 = 0$

$$3y(y-4)-10(y-4)=0$$

$$(y-4)(3y-10)=0$$

$$y = 4, \frac{10}{3}$$

$$x \ge y$$

S43. Ans.(a)

Sol.

I.
$$x^2 + 21x + 108 = 0$$

 $x^2 + 9x + 12x + 108 = 0$
 $x(x + 9) + 12(x + 9) = 0$
 $(x + 12)(x + 9) = 0$
 $x = -12, -9$
II. $y^2 + 14y + 48 = 0$
 $y^2 + 6y + 8y + 48 = 0$
 $y(y + 6) + 8(y + 6) = 0$
 $(y + 8)(y + 6) = 0$
 $y = -8, -6$

y > x





S44. Ans.(d)

Sol.

$$I. 2x^2 + 7x - 60 = 0$$

$$2x^2 + 15x - 8x - 60 = 0$$

$$x(2x + 15) - 4(2x + 15) = 0$$

$$(x-4)(2x+15)=0$$

$$x=4,\frac{-15}{2}$$

II.
$$3y^2 - 28y + 64 = 0$$

$$3y^2 - 12y - 16y + 64 = 0$$

$$3y(y-4)-16(y-4)=0$$

$$(3y-16)(y-4)=0$$

$$y = \frac{16}{3}, 4$$

 $y \ge x$

S45. Ans.(e)

Sol.

I.
$$x^2 - 2x - 24 = 0$$

$$x^2 - 6x + 4x - 24 = 0$$

$$x(x-6) + 4(x-6) = 0$$

$$(x + 4)(x-6) = 0$$

$$x = 6, -4$$

II.
$$y^2 + 3y - 40 = 0$$

$$y^2 + 8y - 5y - 40 = 0$$

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

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

$$x = 5, -8$$

No relation can be established



S46. Ans.(c)

Sol.

I.
$$x^3 = 729$$

$$x = \sqrt[3]{729}$$

$$x = 9$$

II.
$$y^2 - 15y + 54 = 0$$

$$v^2 - 6v - 9v + 54 = 0$$

$$y(y-6) - 9(y-6) = 0$$

$$(y-6)(y-9)=0$$

$$y = 9, 6$$

So,
$$x \ge y$$
.



\$47. Ans.(a)

Sol.

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

ATQ,
$$140x \times \frac{24}{100} - 100x \times \frac{30}{100} = 1800$$

$$33.6x - 30x = 1800$$

$$3.6x = 1800$$

$$x = 500$$

Required number of Pizza = $140 \times 500 \times (\frac{30+10}{100}) = 28000$

S48. Ans.(e)

Sol.

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

Total Pizza sold by S & T together in 2018 =
$$140x \times \left(\frac{16+20}{100}\right) = 50.4x$$

Total Pizza sold by Q & R together in 2017= $100x \times \left(\frac{10+24}{100}\right) = 34x$

Total Pizza sold by Q & R together in 2017=
$$100x \times \left(\frac{10+24}{100}\right) = 34x$$

Required percentage =
$$\frac{50.4x - 34x}{34x} \times 100 = 48.23 \approx 48\%$$

\$49. Ans.(c)

Sol.

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

ATQ,
$$140x \times \frac{30}{100} - 100x \times \frac{24}{100} = 5400$$

$$42x - 24x = 5400$$

$$18x = 5400$$

$$x = 300$$

Required revenue = $140 \times 300 \times \frac{10}{100} \times 40 = \text{Rs.} 168000$

\$50. Ans.(c)

Sol.

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

Average number of Pizza sold by R, S & T in 2017 = $100x \times \frac{1}{3} \times \left(\frac{24+16+20}{100}\right) = 20x$

Total Pizza sold by P & Q together in 2018= $140x \times \left(\frac{30+10}{100}\right) = 56x$

Required ratio = $\frac{20x}{56x}$ = 5 : 14





S51. Ans.(d)

Sol

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

Required percentage =
$$\frac{\left[\frac{140x \times \left(\frac{30+24+16}{100}\right)}{\left[\frac{100x \times \left(\frac{30+10}{100}\right)}{100}\right]} \times 100$$

$$=\frac{98x}{40x} \times 100$$

= 245%

S52. Ans.(e)

Sol.

Let total Pizza sold by these five outlets of 'Pizza hut' in 2017 be '100x'.

So, total Pizza sold by these five outlets of 'Pizza hut' in 2018 = $100x \times \frac{140}{100} = 140x$

Let total number of pizzas sold in 2018 be 140x

Total pizzas sold by $T = \frac{20}{100} \times 140x = 28x$

Difference between the number of male and female buyers = $\frac{1}{7} \times 28x = 4x$

$$4x = 12$$

$$x = 3$$

Number of pizzas sold by Q in 2017 = $100x \times \frac{10}{100} = 300 \times \frac{10}{100} = 30$

\$53. Ans.(a)

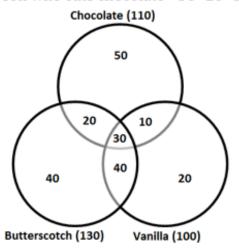
Sol.

Person who eats only vanilla = 100- (40+10+30) = 20

Person who eat butterscotch and chocolate only = 130-(40+40+30) = 20

Person who eat only chocolate= 210-(40+40+30+10+20+20) =50

Person who eats chocolate= 50+20+30+10= 110



Number of people who eat only chocolate=50



\$54.Ans.(a)

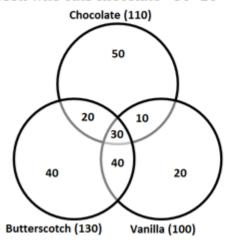
Sol

Person who eats only vanilla = 100- (40+10+30) = 20

Person who eat butterscotch and chocolate only = 130-(40+40+30) = 20

Person who eat only chocolate= 210-(40+40+30+10+20+20) =50

Person who eats chocolate= 50+20+30+10= 110



ATQ, People eating chocolate and butterscotch only = 20

People eating only butterscotch =40

Required percentage = $\frac{20}{40} \times 100 = 50\%$

S55. Ans.(d)

Sol.

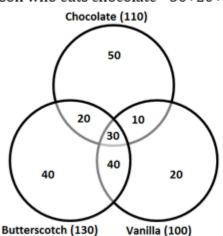
Person who eats only vanilla = 100- (40+10+30) = 20

Person who eat butterscotch and chocolate only = 130-(40+40+30) = 20

Person who eat only chocolate= 210-(40+40+30+10+20+20) =50

Person who eats chocolate= 50+20+30+10= 110





People eating only vanilla = 20

People eating all 3 icecreams = 30

Required difference = 30- 20= 10



S56. Ans.(b)

Sol.

Number of employees working from Home in company B and D together =

$$= \frac{280}{70} \times 30 + \frac{210}{50} \times 50$$
$$= 120 + 210 = 330$$

So, required percentage =
$$\frac{330-180}{180} \times 100 = \frac{150}{180} \times 100 = \frac{250}{3}\%$$

S57. Ans.(c)

Sol.

Number of employees working from Home in company A = $\frac{150}{40} \times 60 = 225$ Number of employees working from Home in company C = $\frac{180}{60} \times 40 = 120$ Number of employees working from Home in company D = $\frac{210}{50} \times 50 = 210$ So, required average = $\frac{1}{3} \times (225 + 120 + 210) = \frac{555}{3} = 185$

S58. Ans.(a)

Sol.

Total employees working in company A = $\frac{150}{40} \times 100 = 375$ Total employees working in company B = $\frac{280}{70} \times 100 = 400$ Required percentage = $\frac{375}{400} \times 100 = 93.75\%$

\$59. Ans.(d)

Sol.

Number of employees working in company D = $\frac{210}{50} \times 100 = 420$ Number of employees working in company X = $420 \times \frac{140}{100} = 588$ So, required difference = $\frac{6}{28} \times 588 = 126$

S60. Ans.(b)

Sol.

Number of employees working from Home in company E = $300 \times \frac{80}{20} = 1200$ Number of employees working from Home in company C = $180 \times \frac{40}{60} = 120$ So, required ratio = $\frac{1200}{120} = \frac{10}{1}$

S61. Ans.(a)

Sol.

Pattern of series Wrong number = 104 $5+(6^2+2)=43$ $43+(5^2+2)=70$ $70+(4^2+2)=88$ $88+(3^2+2)=99$ $99+(2^2+2)=105$ $105+(1^2+2)=108$





S62. Ans.(c)

Sol.

Pattern of series

Wrong number = 18

 $4 \times 2 + 1 = 9$

 $9 \times 2 - 1 = 17$

 $17 \times 2 + 1 = 35$

 $35 \times 2 - 1 = 69$

 $69 \times 2 + 1 = 139$

 $139 \times 2 - 1 = 277$

S63. Ans.(d)

Sol.

Pattern of series

Wrong number = 235

5+13+1=7

 $7+2^3+2=17$

17+33+3=47

47+43+4=115

115+53+5=245

245 +63+6= 467

S64. Ans.(e)

Sol.

Pattern of series

Wrong number = 4330

 $12 \times 6 = 72$

 $72 \times 5 = 360$

 $360 \times 4 = 1440$

 $1440 \times 3 = 4320$

 $4320 \times 2 = 8640$

 $8640 \times 1 = 8640$

S65. Ans.(a)

Sol.

Pattern of series

Wrong number = 93

17 + 5 = 22

22 + 10 = 32

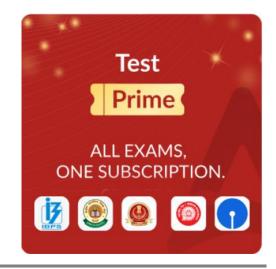
32 + 15 = 47

47 + 20 = 67

67 + 25 = 92

92 + 30 = 122









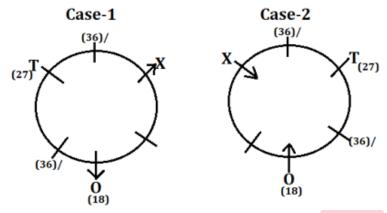
S66. Ans.(a)

Sol. Given word- ENVIRONMENT

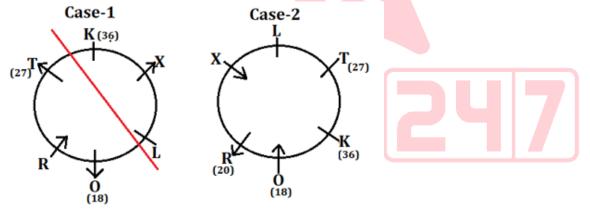
After Applying given conditions- FMUJQPMLFMS

S67. Ans.(c)

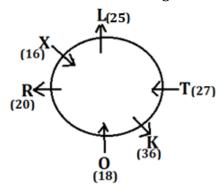
Sol. T sits second to the right of O and gets the marks which is a cube of a number. There are two possibilities. One person sits between T and X who faces the same direction as O. The one who gets double marks of O is an immediate neighbour of T. There is only a possibility that O gets 18 marks.



L sits second to the right of R who gets 7 marks less than T. L does not get the highest marks. R and O face opposite directions. Immediate neighbours of R facing the same direction. K is not an immediate neighbour of X. R doesn't face inside. From this condition, case 1 will be eliminated.



The one who gets 16 marks sits second to the right of T but immediately left of the one who gets 25 marks. The final arrangement is-



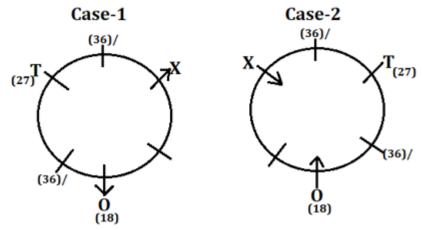
K sits second to the right of L who gets 25 marks.



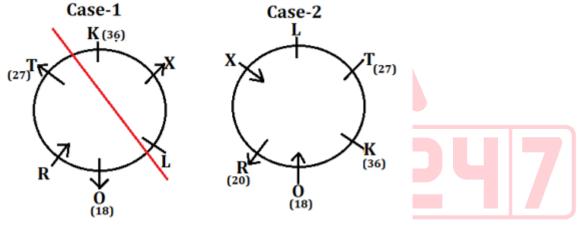


S68. Ans.(d)

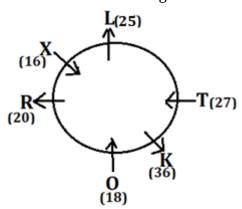
Sol. T sits second to the right of O and gets the marks which is a cube of a number. There are two possibilities. One person sits between T and X who faces the same direction as O. The one who gets double marks of O is an immediate neighbour of T. There is only a possibility that O gets 18 marks.



L sits second to the right of R who gets 7 marks less than T. L does not get the highest marks. R and O face opposite directions. Immediate neighbours of R facing the same direction. K is not an immediate neighbour of X. R doesn't face inside. From this condition, case 1 will be eliminated.



The one who gets 16 marks sits second to the right of T but immediately left of the one who gets 25 marks. The final arrangement is-



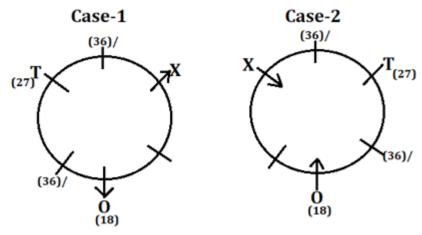
X=16, 0=18 Difference= 18-16=2



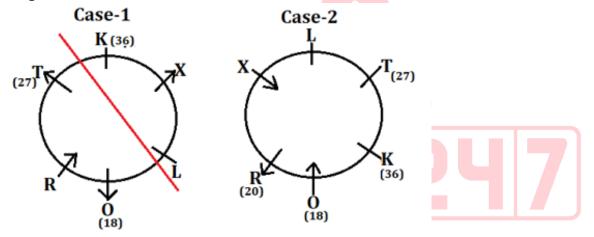


S69. Ans.(b)

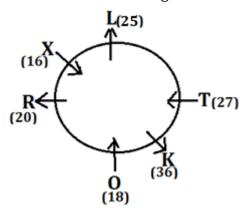
Sol. T sits second to the right of O and gets the marks which is a cube of a number. There are two possibilities. One person sits between T and X who faces the same direction as O. The one who gets double marks of O is an immediate neighbour of T. There is only a possibility that O gets 18 marks.



L sits second to the right of R who gets 7 marks less than T. L does not get the highest marks. R and O face opposite directions. Immediate neighbours of R facing the same direction. K is not an immediate neighbour of X. R doesn't face inside. From this condition, case 1 will be eliminated.



The one who gets 16 marks sits second to the right of T but immediately left of the one who gets 25 marks. The final arrangement is-



R sits second to the left of L.





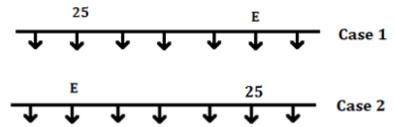
\$70. Ans.(b)

Sol. Given number- 39225685459

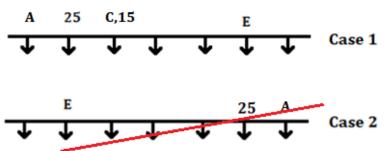
After applying the given conditions- 17333793537

S71. Ans.(b)

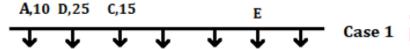
Sol. From the given statements, E sits 2^{nd} from one of the extreme ends. From this condition, we get 2 possibilities i.e., Case 1 and Case 2. Three persons sit between E and the one who is 25 years old.



The one who is 25 years old is the only neighbour of A. C is 15 years old and sits 3^{rd} to the right of E. Here Case 2 is ruled out now.

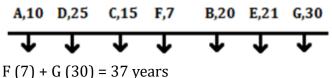


The age of D is equal to the total age of his immediate neighbours. D sits to the right of C.



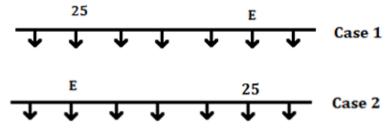
B is 10 years older than A and 10 years younger than G who sits at one of the extreme ends.

F sits to the right of B who is 1 year younger than E whose age is thrice of age to F. So, the final arrangement is-



S72. Ans.(a)

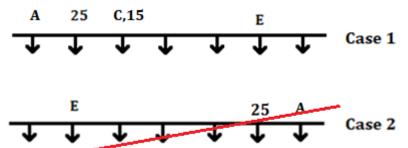
Sol. From the given statements, E sits 2^{nd} from one of the extreme ends. From this condition, we get 2 possibilities i.e., Case 1 and Case 2. Three persons sit between E and the one who is 25 years old.



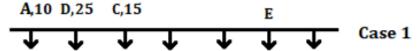




The one who is 25 years old is the only neighbour of A. C is 15 years old and sits 3^{rd} to the right of E. Here Case 2 is ruled out now.



The age of D is equal to the total age of his immediate neighbours. D sits to the right of C.



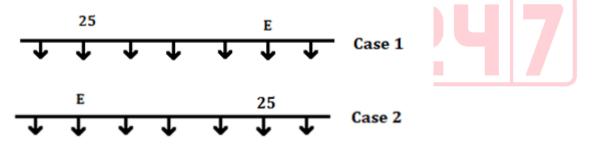
B is 10 years older than A and 10 years younger than G who sits at one of the extreme ends.

F sits to the right of B who is 1 year younger than E whose age is thrice of age to F. So, the final arrangement is-

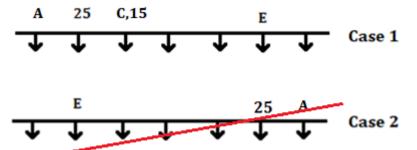
G sits 3rd to the left of F

S73. Ans.(e)

Sol. From the given statements, E sits 2nd from one of the extreme ends. From this condition, we get 2 possibilities i.e., Case 1 and Case 2. Three persons sit between E and the one who is 25 years old.



The one who is 25 years old is the only neighbour of A. C is 15 years old and sits 3rd to the right of E. Here Case 2 is ruled out now.



The age of D is equal to the total age of his immediate neighbours. D sits to the right of C.







B is 10 years older than A and 10 years younger than G who sits at one of the extreme ends.

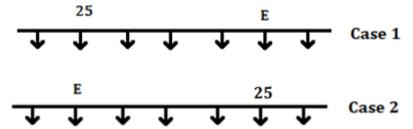
F sits to the right of B who is 1 year younger than E whose age is thrice of age to F. So, the final arrangement is-



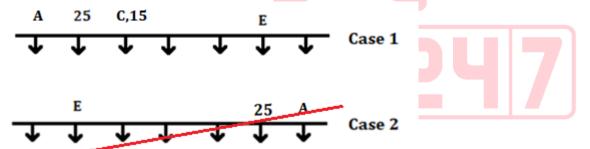
Except A all of them sit in the middle of the row. Also, the age of all the persons is an odd number except A.

S74. Ans.(e)

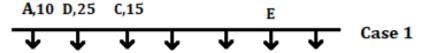
Sol. From the given statements, E sits 2^{nd} from one of the extreme ends. From this condition, we get 2 possibilities i.e., Case 1 and Case 2. Three persons sit between E and the one who is 25 years old.



The one who is 25 years old is the only neighbour of A. C is 15 years old and sits 3rd to the right of E. Here Case 2 is ruled out now.



The age of D is equal to the total age of his immediate neighbours. D sits to the right of C.



B is 10 years older than A and 10 years younger than G who sits at one of the extreme ends.

F sits to the right of B who is 1 year younger than E whose age is thrice of age to F. So, the final arrangement is-



<u>A</u> sits 2^{nd} to the right of the one who is <u>15</u> years old and <u>B</u> sits 2^{nd} to the right of the one who is <u>30</u> years old



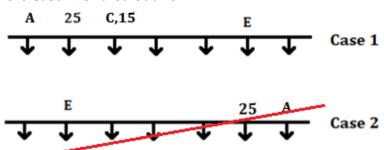


\$75. Ans.(b)

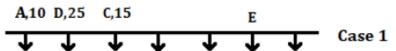
Sol. From the given statements, E sits 2^{nd} from one of the extreme ends. From this condition, we get 2 possibilities i.e., Case 1 and Case 2. Three persons sit between E and the one who is 25 years old.



The one who is 25 years old is the only neighbour of A. C is 15 years old and sits 3^{rd} to the right of E. Here Case 2 is ruled out now.

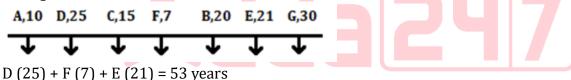


The age of D is equal to the total age of his immediate neighbours. D sits to the right of C.



B is 10 years older than A and 10 years younger than G who sits at one of the extreme ends.

F sits to the right of B who is 1 year younger than E whose age is thrice of age to F. So, the final arrangement is-



S76. Ans.(e)

Sol. From the given statements, Box C is placed at the position which is a multiple of 3. Here we have 3 possible cases that Box C may be placed at the 3rd, 6th or 9th position. Three boxes are placed between Box C and Box H.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			С
8			
7	Н		
6		С	
5			Н
4			
3	С		
2		Н	
1			





There are as many boxes placed below Box H as above Box L. Here Case 1 and Case 3 are ruled out now.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			G
8		L	
7	H		
6		С	
5			Ħ
4			
3	E		
2		Н	
1			

Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E.

Number	Case 2
	Box
9	
8	L
7	
6	С
5	
4	G
3	Е
2	Н
1	D

More than two boxes are placed between Box M and Box B. Box F is placed above Box M.

So, the final arrangement is-

Number	Box
9	В
8	L
7	F
6	С
5	M
4	G
3	Е
2	Н
1	D

Three boxes are placed between Box E and Box F

S77. Ans.(c)

Sol. From the given statements, Box C is placed at the position which is a multiple of 3. Here we have 3 possible cases that Box C may be placed at the 3rd, 6th or 9th position. Three boxes are placed between Box C and Box H.





Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			С
8			
7	Н		
6		С	
5			Н
4			
3	С		
2		Н	
1			

There are as many boxes placed below Box H as above Box L. Here Case 1 and Case 3 are ruled out now.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			G
8		L	
7	Ħ		
6		С	
5			Ħ
4			
3	E		
2		Н	
1			

Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E.

Number	Case 2
	Box
9	
8	L
7	
6	С
6 5	
4	G
3	Е
2	Н
1	D



More than two boxes are placed between Box M and Box B. Box F is placed above Box M. So, the final arrangement is-

Number	Box
9	В
8	L
7	F
6	С
5	M
4	G
3	Е
2	Н
1	D

Four boxes are placed below the Box M





S78. Ans.(e)

Sol. From the given statements, Box C is placed at the position which is a multiple of 3. Here we have 3 possible cases that Box C may be placed at the 3rd, 6th or 9th position. Three boxes are placed between Box C and Box H.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			С
8			
7	Н		
6		С	
5			Н
4			
3	С		
2		Н	
1			

There are as many boxes placed below Box H as above Box L. Here Case 1 and Case 3 are ruled out now.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			e
8		L	
7	Ħ		
6		С	
5			Ħ
4			
3	e		
2		Н	
1			

Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E.

Number	Case 2
	Box
9	
8	L
7	
6	С
6 5	
4	G
3	Е
2	Н
1	D

More than two boxes are placed between Box M and Box B. Box F is placed above Box M.

So, the final arrangement is-







Number	Box
9	В
8	L
7	F
6	С
5	M
4	G
3	Е
2	Н
1	D

Three boxes are placed between Box H and Box C

S79. Ans.(b)

Sol. From the given statements, Box C is placed at the position which is a multiple of 3. Here we have 3 possible cases that Box C may be placed at the 3^{rd} , 6^{th} or 9^{th} position. Three boxes are placed between Box C and Box H.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			С
8			
7	Н		
6		С	
5			Н
4			
3	С		
2		Н	
1			

There are as many boxes placed below Box H as above Box L. Here Case 1 and Case 3 are ruled out now.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			e
8		L	
7	H		
6		С	
5			Ħ
4			
3	E		
2		Н	
1			



Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E.

Number	Case 2
	Box
9	
8	L
7	
6	С
6 5	
4	G
3	Е
2	Н
1	D





More than two boxes are placed between Box M and Box B. Box F is placed above Box M. So, the final arrangement is-

Number	Box
9	В
8	L
7	F
6	С
5	M
4	G
3	Е
2	Н
1	D

The number of boxes placed between Box D and Box M is half of the number of boxes placed above Box E

S80. Ans.(a)

Sol. From the given statements, Box C is placed at the position which is a multiple of 3. Here we have 3 possible cases that Box C may be placed at the 3rd, 6th or 9th position. Three boxes are placed between Box C and Box H.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			С
8			
7	Н		
6		С	
5			Н
4			
3	С		
2		Н	
1			



There are as many boxes placed below Box H as above Box L. Here Case 1 and Case 3 are ruled out now.

Number	Case 1	Case 2	Case 3
	Box	Box	Box
9			e
8		L	
7	H		
6		С	
5			Ħ
4			
3	E		
2		Н	
1			

Box G is placed just above Box E but not placed just below Box C. Box D is placed below Box E.





Number	Case 2
	Box
9	
8	L
7	
6	С
6 5	
4	G
3	Е
2	Н
1	D

More than two boxes are placed between Box M and Box B. Box F is placed above Box M. So, the final arrangement is-

Number	Box
9	В
8	L
7	F
6	С
5	M
4	G
3	Е
2	Н
1	D

All of the boxes are placed at even-numbered positions except box E

S81. Ans.(b)

Sol. Meaningful word - PANIC

S82. Ans.(b)

Sol. J is the father-in-law of N who is the father of both R and X.

O is the mother of S. A is the only son of J. There is no single parent in the family, which means O is the wife of J. Female members are more than male members. Thus, the final arrangement is: -

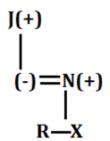
R is the granddaughter of O.





S83. Ans.(c)

Sol. J is the father-in-law of N who is the father of both R and X.



O is the mother of S. A is the only son of J. There is no single parent in the family, which means O is the wife of J. Female members are more than male members. Thus, the final arrangement is: -

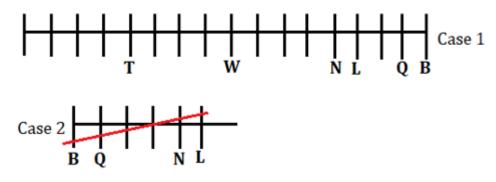
A is the maternal uncle of X.

S84. Ans.(d)

Sol. Two persons sit between N and Q who is the only neighbour of B. Two possibilities arise from this statement: -



W sits 5th to the left of L who sits immediately right of N, so case 2 is eliminated here because there is no place for W as per this condition. W sit exactly middle of the row; it means that 17 persons sit in the row. The number of persons sit between W and N is same as the number of persons sit between W and T.







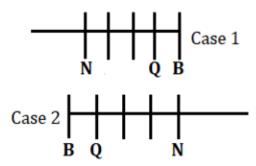
Z sits 2nd to the right of H. Three person sits between T and H. O sits just left of A and just right of E who doesn't sit adjacent to W. So, the final arrangement is:



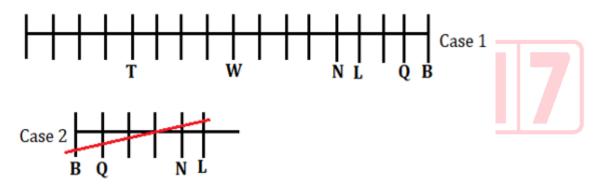
17 persons sit in the row.

S85. Ans.(d)

Sol. Two persons sit between N and Q who is the only neighbour of B. Two possibilities arise from this statement: -



W sits 5th to the left of L who sits immediately right of N, so case 2 is eliminated here because there is no place for W as per this condition. W sit exactly middle of the row; it means that 17 persons sit in the row. The number of persons sit between W and N is same as the number of persons sit between W and T.



Z sits 2nd to the right of H. Three person sits between T and H. O sits just left of A and just right of E who doesn't sit adjacent to W. So, the final arrangement is:



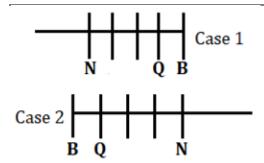
Two persons sit between E and W.

S86. Ans.(b)

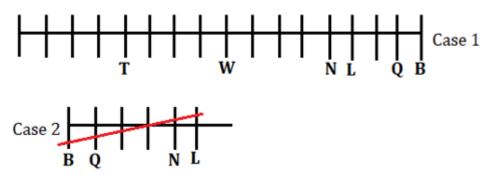
Sol. Two persons sit between N and Q who is the only neighbour of B. Two possibilities arise from this statement: -







W sits 5th to the left of L who sits immediately right of N, so case 2 is eliminated here because there is no place for W as per this condition. W sit exactly middle of the row; it means that 17 persons sit in the row. The number of persons sit between W and N is same as the number of persons sit between W and T.



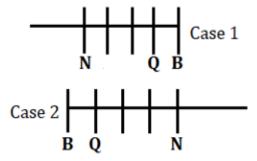
Z sits 2nd to the right of H. Three person sits between T and H. O sits just left of A and just right of E who doesn't sit adjacent to W. So, the final arrangement is:



Prime number i.e., 11 persons sit between H and N.

\$87. Ans.(e)

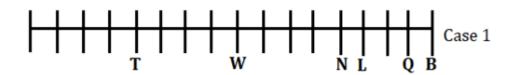
Sol. Two persons sit between N and Q who is the only neighbour of B. Two possibilities arise from this statement: -

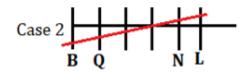


W sits 5th to the left of L who sits immediately right of N, so case 2 is eliminated here because there is no place for W as per this condition. W sit exactly middle of the row; it means that 17 persons sit in the row. The number of persons sit between W and N is same as the number of persons sit between W and T.









Z sits 2nd to the right of H. Three person sits between T and H. O sits just left of A and just right of E who doesn't sit adjacent to W. So, the final arrangement is:



T and E are adjacent to each other.

S88. Ans.(b)

Sol. Shoe A is shorter than only shoe K and shoe L. There are two possible cases: -

Case 1
$$K > L > A > >$$

Case 2
$$L > K > A > >$$

Shoe S is longer than Shoe B and shorter than Shoe Z. The length of Shoe K is 52cm and the length of Shoe Z is 46cm. The length of Shoe L is 55cm., So case 1 is cancelled: -

Case 1
$$K > L > A > Z > S > B$$

Case 2 L > K > A > Z > S > B
$$55 52 46$$

Thus, the final arrangement is: -

$$L > K > A > Z > S > B$$
 $55 52 46$

Shoe S is the 2nd shortest shoe.

S89. Ans.(c)

Sol. Shoe A is shorter than only shoe K and shoe L. There are two possible cases: -

Case 1
$$K > L > A > >$$

Case 2
$$L > K > A > >$$





Shoe S is longer than Shoe B and shorter than Shoe Z. The length of Shoe K is 52cm and the length of Shoe Z is 46cm. The length of Shoe L is 55cm., So case 1 is cancelled: -

Case 1
$$K > L > A > Z > S > B$$

Case 2
$$L > K > A > Z > S > B$$

55 52 46

Thus, the final arrangement is: -

Length of shoe A will be 50cm.

S90. Ans.(d)

Sol. Shoe A is shorter than only shoe K and shoe L. There are two possible cases: -

Case 1
$$K > L > A > > >$$

Case 2
$$L > K > A > >$$

Shoe S is longer than Shoe B and shorter than Shoe Z. The length of Shoe K is 52cm and the length of Shoe Z is 46cm. The length of Shoe L is 55cm., So case 1 is cancelled: -

Case 1
$$K > L > A > Z > S > B$$

Case 2 L > K > A > Z > S > B
$$55$$
 52 46

Thus, the final arrangement is: -

55 52 46

The required difference will be 52cm - 35cm = 17cm

S91. Ans.(c)

Sol. R and T were born in the adjacent month having 31 days. Two possibilities arise from this statement: -

Months	Persons	Persons
	Case 1	Case 2
January		
February		
March		
April		
May		
June		
July	R	T
August	T	R





Four persons were born between R and W who was born just after S. P was born three months before V. U was neither born in May nor in June, So case 2 is ruled out here as there is no other place for U.

Months	Persons	Persons
	Case 1	Case 2
January	S	₽
February	W	S
March	P	₩
April	U	¥
May		
June	V	
July	R	Ŧ
August	T	R

We know, Q is one of the persons thus the final arrangement is: -

Months	Persons
January	S
February	W
March	P
April	U
May	Q
June	V
July	R
August	T

Three persons were born between Q and S.

S92. Ans.(d)

Sol. R and T were born in the adjacent month having 31 days. Two possibilities arise from this statement: -

Months	Persons	Persons
	Case 1	Case 2
January		
February		
March		
April		
May		
June		
July	R	T
August	T	R



Four persons were born between R and W who was born just after S. P was born three months before V. U was neither born in May nor in June, So case 2 is ruled out here as there is no other place for U.

Months	Persons	Persons
	Case 1	Case 2
January	S	₽
February	W	S
March	P	₩
April	U	¥
May		
June	v	
July	R	Ŧ
August	T	R





We know, Q is one of the persons thus the final arrangement is: -

Months	Persons
January	S
February	W
March	P
April	U
May	Q
June	V
July	R
August	T

U was born in April.

S93. Ans.(d)

Sol. R and T were born in the adjacent month having 31 days. Two possibilities arise from this statement: -

Months	Persons	Persons
	Case 1	Case 2
January		
February		
March		
April		
May		
June		
July	R	T
August	T	R

Four persons were born between R and W who was born just after S. P was born three months before V. U was neither born in May nor in June, So case 2 is ruled out here as there is no other place for U.

Months	Persons	Persons
	Case 1	Case 2
January	S	₽
February	W	S
March	P	₩
April	U	¥
May		
June	V	
July	R	Ŧ
August	T	R



We know, Q is one of the persons thus the final arrangement is: -

Months	Persons
January	S
February	W
March	P
April	U
May	Q
June	V
July	R
August	T

Except for V, all of the persons were born in the month having 31 days.





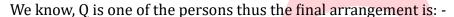
S94. Ans.(b)

Sol. R and T were born in the adjacent month having 31 days. Two possibilities arise from this statement: -

Months	Persons	Persons
	Case 1	Case 2
January		
February		
March		
April		
May		
June		
July	R	T
August	T	R

Four persons were born between R and W who was born just after S. P was born three months before V. U was neither born in May nor in June, So case 2 is ruled out here as there is no other place for U.

Months	Persons	Persons
	Case 1	Case 2
January	S	₽
February	W	8
March	P	₩
April	U	¥
May		
June	V	
July	R	Ŧ
August	T	R



Months	Persons
January	S
February	W
March	P
April	U
May	Q
June	V
July	R
August	T



U was born two months after W.

S95. Ans.(d)

Sol. R and T were born in the adjacent month having 31 days. Two possibilities arise from this statement: -

Months	Persons	Persons
	Case 1	Case 2
January		
February		
March		
April		
May		
June		
July	R	T
August	T	R





Four persons were born between R and W who was born just after S. P was born three months before V. U was neither born in May nor in June, So case 2 is ruled out here as there is no other place for U.

Months	Persons	Persons
	Case 1	Case 2
January	S	₽
February	W	Ş
March	P	₩
April	U	¥
May		
June	V	
July	R	Ŧ
August	T	R

We know, Q is one of the persons thus the final arrangement is: -

Months	Persons
January	S
February	W
March	P
April	U
May	Q
June	V
July	R
August	T

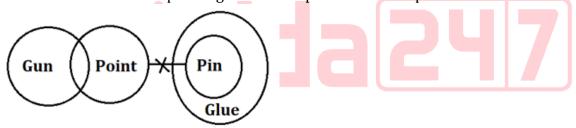
Q was born in May.

S96. Ans.(d)

Sol.

I. Follows – because the part of glue which is pin cannot be point.

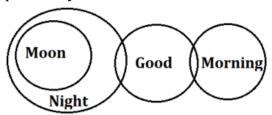
II. Follows - because the part of gun which is point cannot be pin.



S97. Ans.(b)

Sol

- I. Not Follows There is no direct relation between Moon and Good, so any definite relation between them will not follow.
- II. Follows There is no direct relation between Night and Morning, so their relation will follow in possibility.



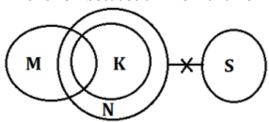




S98. Ans.(d)

Sol.

I. Follows – Because Some M is K and all K is N, thus it is clear from the Venn diagram that some M is N II. Follows - because all K is N and no N is S.



S99. Ans.(a)

Sol.

I. Follows - because there is no direct relation between 523 and 836, so their relation will follow in

II. Not Follows – because 912 is only related to 836.



Sol.

I. Not Follows - Because there is no direct relation God and Pond, so any definite relation will not follow. II. Not Follows - Because there is no relation between Pod and Pond, so any definite relation will not

follow.

