

**Q1. If 2 is subtracted from each even digit and 1 is added to each odd digit in the given number '2145673', then how many digits will appear more than one in the new number thus formed?**

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

**Directions (2-6): Study the following information carefully and answer the question given below-**

Eight persons live in a building of four floors such that ground floor is numbered 1 and floor above it is 2 and so on up to 4<sup>th</sup> floor. Each of the floor consist of 2 flats as flat-P, which is in west of flat Q. Flat-P of floor-2 is immediately above flat-P of floor-1 and immediately below flat-P of floor-3 and in the same way flat-Q of each floor follow same pattern.

A lives on an even numbered floor. A lives just above the flat of E. B lives to the west of E. One floor gap between D and C. H lives in the east of D. G lives on the 3<sup>rd</sup> floor. Both F and C live in the different flats.

**Q2. Who among the following lives just below the flat in which G lives?**

- (a) B
- (b) C
- (c) A
- (d) Both (b) and (c)
- (e) None of these

**Q3. How many floors gap between B and H?**

- (a) None
- (b) Two
- (c) One
- (d) Either (a) or (c)
- (e) Either (b) or (c)

**Q4. What is the direction of G with respect to E?**

- (a) South
- (b) North-east
- (c) North
- (d) East
- (e) North-west

**Q5. Which of the following floor does C lives?**

- (a) Floor-1
- (b) Floor-4
- (c) Floor-3
- (d) Floor-2
- (e) None of these

**Q6. Which of the following is true regarding H?**

- (a) Floor 4 – Flat P
- (b) Floor3 – Flat Q
- (c) Floor 2- Flat P
- (d) Floor4- Flat Q
- (e) Floor1- Flat Q

**Direction (7-11): Study the following information carefully and answer the questions given below:**

In a certain code language

'plan to go exam' is coded as 'oj kr mn pc'

'exam today easy' is coded as 'si oj ly'

'plan your exam today' is coded as 'zm oj si mn '

'make your plan today' is coded as 'zm si mn rk'

**Q7. What is the code of 'make' as per the given code language?**

- (a) zm
- (b) mn
- (c) rk
- (d) pc
- (e) None of these

**Q8. What is the code of 'exam' as per the given code language?**

- (a) rk
- (b) pc
- (c) kr
- (d) oj
- (e) None of these

**Q9. What is the code of 'go' as per the given code language?**

- (a) pc
- (b) si
- (c) kr
- (d) either 'pc' or 'kr'
- (e) None of these

**Q10. What is the code of 'exam today' as per the given code language?**

- (a) si oj
- (b) mn kr
- (c) lv si
- (d) zm oj
- (e) None of these

**Q11. If 'easy to plan' is coded as 'mn ly pc' then what is the code of 'go' as per the given code language?**

- (a) pc
- (b) zm
- (c) kr
- (d) mn
- (e) None of these

**Q12. How many pairs of letters are there in the word "GRANDUAL" each of which have as many letters between them in the word as they have between them in the English alphabetical series??**

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

**Directions (13-15): Study the information carefully and answer the questions given below.**

Point P is 26m west of point S. Point G is 52m north of point P. Point M is 39m east of point G and point K is 13m south of point G. Point H is 39m north of point S.

**Q13. In which direction point P with respect to point M?**

- (a) South
- (b) South-east
- (c) North-east
- (d) East
- (e) None of these

**Q14. What is the shortest distance between point K and point H?**

- (a) 13m
- (b) 26m
- (c) 39m
- (d) 25m
- (e) None of these

**Q15. If Point Z is 13m north of point H, then what is the distance between point M and point Z?**

- (a) 13m
- (b) 26m
- (c) 39m
- (d) 25m
- (e) None of these

**Directions (16-20): Study the following information carefully and answer the question given below-**

Seven persons D, G, P, L, J, U and Q are sitting in a row facing to the north. They all have of different ages. D sits 3<sup>rd</sup> from one of the extreme ends of the row. Q sits 2<sup>nd</sup> to the right of D. The number of persons sit to the left of Q is same as the number of persons sit to the right of G, who is 20 years old. P sits 4<sup>th</sup> to the left of the one who is 35 years old. Q is not 35 years old. Total age of immediate neighbours of D is 75 years. J is 30 years old. P is 20 year older than one of his immediate neighbours. U sits to the right of L, who sits immediate to the left of the one who is 25 years old. Q is 5 year younger than P.

**Q16. The number of persons sit between L and Q is same as the number of persons sit between P and \_\_\_?**

- (a) D
- (b) G
- (c) U
- (d) Q
- (e) None of these

**Q17. What is the position of J with respect to Q?**

- (a) 2<sup>nd</sup> to the left
- (b) Immediate left
- (c) Immediate right
- (d) 4<sup>th</sup> to the left
- (e) 3<sup>rd</sup> to the right

**Q18. 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) P
- (b) G
- (c) J
- (d) L
- (e) U

**Q19. Who among the following is 40 years old?**

- (a) L
- (b) P
- (c) D
- (d) U
- (e) None of these

**Q20. Which of the following statement is true?**

- (a) J sits to the right of L
- (b) D sits 3<sup>rd</sup> to the right of G
- (c) P sits at one of the extreme ends
- (d) None is true
- (e) Q sits immediate right of the one who is 35 years old

**Q21. Study the following information carefully and answer the given questions.**

Six persons i.e. P, Q, R, S, T and U was born on different days of the same week starting from Monday to Saturday, but not necessarily in the same order. P was born on Friday. Two persons were born between U and P. One person was born between R and S. If T was born immediate before S, then who among the following person was born on Wednesday?

- (a) U
- (b) R
- (c) S
- (d) T
- (e) None of these

**Directions (22-26): Study the following information carefully and answer the question given below-**

Ten boxes are placed one above the other. Four boxes are placed between J and M. Two boxes are placed between J and k, which placed above of the J. L is placed just below K. The number of boxes between L and M is same the number of boxes between M and Q. T is placed just above Q. Y is placed just above O. X is adjacent to M. P is placed below X.

**Q22. How many boxes are placed between O and L?**

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

**Q23. 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) T-Y
- (b) X-L
- (c) K-P
- (d) Q-O
- (e) M-Q

**Q24. Which of the following statement is true?**

- (a) L is 3<sup>rd</sup> from the topmost position
- (b) Two boxes placed between K and M
- (c) Q is above P
- (d) T is placed at bottommost position
- (e) Three boxes placed between Y and M

**Q25. What is the position of Y from the bottommost?**

- (a) Seven
- (b) Eight
- (c) Six
- (d) Five
- (e) Three

**Q26. If T and O interchange their positions then which among the following box is placed just below O?**

- (a) Y
- (b) X
- (c) K
- (d) Q
- (e) None of these

**Directions (27-31): Study the following information carefully and answer the question given below-**

A certain number of persons sit in a row facing to the north direction. L sits 3<sup>rd</sup> to the left of M. Five persons sit between M and N. J sits immediate to the right of M. Three persons sit between Q and J. Q does not sit next to N. N is 7<sup>th</sup> from one of the ends. The number of persons sit to the right of Q is four more than the persons who sit to the left of N. K sits 2<sup>nd</sup> from one of the ends and sit to the right of M.

**Q27. How many persons sit in the above arrangement?**

- (a) 25
- (b) 26
- (c) 28
- (d) 24
- (e) None of these

**Q28. If two persons sit between X and N, then what is the position of X with respect to L?**

- (a) 4<sup>th</sup> to the left
- (b) 6<sup>th</sup> to the left
- (c) 5<sup>th</sup> to the right
- (d) 3<sup>rd</sup> to the left
- (e) 7<sup>th</sup> to the left

**Q29. How many persons sit between L and J?**

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

**Q30. What is the position of L with respect to Q?**

- (a) 8<sup>th</sup> to the right
- (b) 8<sup>th</sup> to the left
- (c) 6<sup>th</sup> to the right
- (d) 5<sup>th</sup> to the left
- (e) None of these

**Q31. How many persons sit to the right of the one, who sits immediate left of J?**

- (a) Ten
- (b) Seven
- (c) None of these
- (d) Eight
- (e) Eleven

**Directions (32-35): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer**

- (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.

**Q32. Statements:**  $Z > O = G < I \leq S > P$

**Conclusions:** I.  $S > O$       II.  $P > G$

**Q33. Statements:**  $K \geq M > W \geq T \leq Y < Q$

**Conclusions:** I.  $T < Q$       II.  $T < K$

**Q34. Statement:**  $J \leq V < R > M, L > M = I \geq H$

**Conclusions:** I.  $V \geq H$       II.  $H \leq M$

**Q35. Statement:**  $I = H \geq B \geq N < D > L$

**Conclusions:** I.  $B < N$       II.  $L > H$

**Directions (36-40): Study the following information carefully and answer the question given below-**

Nine persons sit around a circular table. Some of them are facing to the centre while some are facing outside the centre. C sits 2<sup>nd</sup> to the right of A, who faces inside. Two persons sit between C and G. J sits 3<sup>rd</sup> to the left of G. L sits 2<sup>nd</sup> to the left of J, who does not sit next to C. B sits 3<sup>rd</sup> to the right of L and is an immediate neighbour of P. K sits 4<sup>th</sup> to the right of H, who does not sit near J. Both B and P face same direction as A. C and G face opposite direction to each other. K does not face outside.

**Q36. What is the position of P with respect to K?**

- (a) 3<sup>rd</sup> to the right
- (b) 2<sup>nd</sup> to the left
- (c) Immediate left
- (d) 3<sup>rd</sup> to the left
- (e) 5<sup>th</sup> to the right

**Q37. How many persons sit between J and H, when counted from the left of H?**

- (a) Five
- (b) Six
- (c) Four
- (d) One
- (e) Three

**Q38. 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) C-H
- (b) L-K
- (c) B-J
- (d) H-L
- (e) B-P

**Q39. How many persons sit between G and H, when counted from the left of G?**

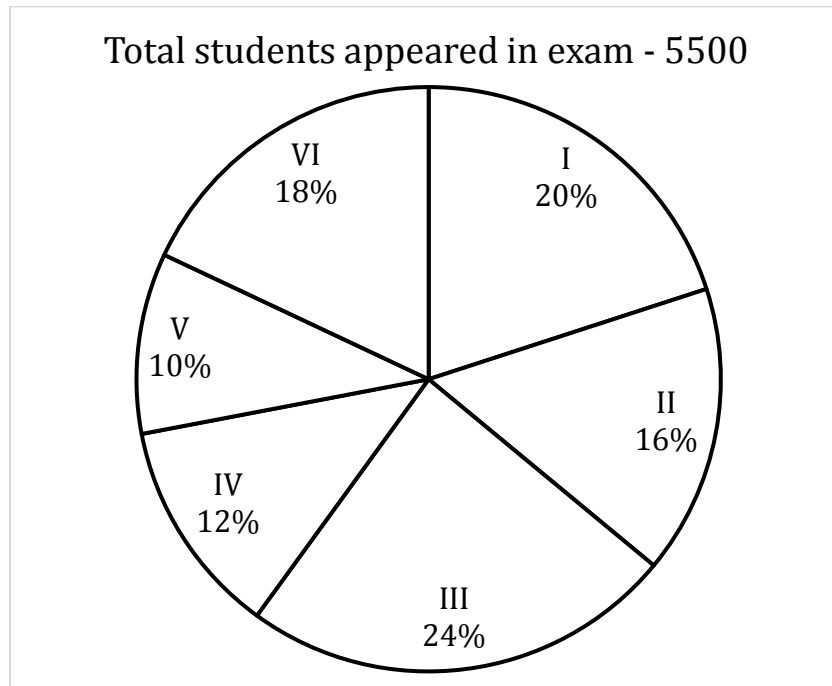
- (a) Three
- (b) Five
- (c) Two
- (d) Four
- (e) None of these

**Q40. How many persons face outside from the centre?**

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



**Directions (41-46):** Pie chart shows the percentage distribution of total students appeared in six different shifts of an exam. Study the pie chart given below and answer the following questions.



**Q41. Find average number of students appeared in shift I, II & IV of the exam.**

- (a) 1040
- (b) 900
- (c) 720
- (d) 1140
- (e) 880

**Q42. Find the central angle for students appeared in shift II of the examination.**

- (a)  $64.2^\circ$
- (b)  $48^\circ$
- (c)  $57.6^\circ$
- (d)  $43.6^\circ$
- (e)  $52.8^\circ$

**Q43. Find total number of students appeared in shift V & VI together of the examination.**

- (a) 1740
- (b) 1600
- (c) 1820
- (d) 1960
- (e) 1540

**Q44. Students appeared in shift III & IV together of the examination are what percent more or less than students appeared in shift I of the examination?**

- (a) 90%
- (b) 80%
- (c) 70%
- (d) 50%
- (e) 60%

**Q45. Find ratio of students appeared in shift IV & VI together of the examination to students appeared in shift II & III together of the examination.**

- (a) 3:4
- (b) 5:7
- (c) 4:3
- (d) 7:5
- (e) None of the above.

**Q46. Students appeared in shift I & VI together of the examination are how much more or less than students appeared in shift III & V together of the examination?**

- (a) 330
- (b) 150
- (c) 360
- (d) 280
- (e) 220

**Q47. A vessel contains mixture of milk and water in the ratio of 7:1 respectively. 24 liters mixture is removed from the vessel and if the quantity of remaining milk in the vessel is 56 liters, then find quantity of water in the vessel initially.**

- (a) 11 liters
- (b) 15 liters
- (c) 12 liters
- (d) 9 liters
- (e) 8 liters

**Q48. A & B together can complete a piece of work in 9 days. Time taken by A alone to complete the same work is 7.5 days less than time taken by B alone to complete the same work. In how many days B alone will complete  $\frac{2}{9}$  of the work?**

- (a) 8 days
- (b) 6 days
- (c) 7 days
- (d) 5 days
- (e) 4 days

**Q49. Ratio of ages of A and B, 4 years later is 8:9 respectively. If average of present ages of A & B is 47 years, then find difference in present ages of A & B.**

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

**Q50. There are 75% boys out of total students (boys + girls) in a school and 39% of the total students of the school went on a picnic. If 32% of the total boys went on a picnic, then find what percent of total girls went on a picnic?**

- (a) 60%
- (b) 90%
- (c) 75%
- (d) 80%
- (e) 50%

**Q51. Number of passed students in an exam in section A & B are 240 & 210 respectively. If in section A 40% of the total students got failed and in section B 30% of the total students got failed, then find difference between total number of students in section A & B.**

- (a) 40
- (b) 80
- (c) 150
- (d) 120
- (e) 100

**Directions (52-56): In the given questions, two equations (I) & (II) are given. You have to solve both the equations and mark the answer accordingly.**

**Q52. I.**  $x^2 + 9x + 20 = 0$

**II.**  $8y^2 - 15y + 7 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q53. I.**  $x^2 - 11x + 30 = 0$

**II.**  $y^2 + 12y + 36 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q54. I.**  $x^2 + 13x + 40 = 0$

**II.**  $y^2 + 7y + 10 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q55. I.**  $x^2 - 20x + 91 = 0$

**II.**  $y^2 + 16y + 63 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Q56. I.**  $x^2 - x - 12 = 0$

**II.**  $y^2 + 5y + 6 = 0$

- (a)  $x < y$
- (b)  $x > y$
- (c)  $x \leq y$
- (d)  $x \geq y$
- (e)  $x = y$  or no relation.

**Directions (57-62):** Study the table given below and answer the following questions.

Table gives information about total number of students in 3 different schools in 1999 & 2000 and also gives information about total number of girls in these 3 schools in 1999 & 2000.

School	Year			
	1999		2000	
	Total students	Total Girls	Total students	Total girls
A	720	360	900	450
B	360	180	600	180
C	450	270	400	120

**Note:** Total students in any school in any year = Total (Boys + Girls) in that school in that year.

**Q57.** If average number of students in school A in 1999, 2000 & 2001 are 700, then find total number of students in school A in 2001.

- (a) 540
- (b) 480
- (c) 420
- (d) 600
- (e) 360

**Q58. Number of girls in school – A & B together in 2000 are what percent more or less than total number of students in school – B & C together in 2000?**

- (a) 27%
- (b) 42%
- (c) 37%
- (d) 30%
- (e) 45%

**Q59. Find total number of boys in school – A, B & C together in 1999.**

- (a) 720
- (b) 640
- (c) 680
- (d) 760
- (e) 800

**Q60. Average number of students in school – A, B & C in 1999 are what percent of total students in school – B in 2000?**

- (a) 95%
- (b) 85%
- (c) 75%
- (d) 55%
- (e) 65%

**Q61. Find ratio of number of boys in school – B in 2000 to number of boys in school – C in 2000.**

- (a) 5:4
- (b) 4:5
- (c) 2:3
- (d) 3:2
- (e) None of the above.

**Q62. Total number of girls in school – A, B & C together in 1999 are how much more or less than total number of girls in school – A, B & C together in 2000?**

- (a) 140
- (b) 60
- (c) 180
- (d) 90
- (e) 100

**Directions (63-67): In the following questions, calculate quantity I and quantity II, compare them and answer according to the following options.**

- (a) If Quantity I > Quantity II
- (b) If Quantity I < Quantity II
- (c) If Quantity I  $\geq$  Quantity II
- (d) if Quantity I  $\leq$  Quantity II
- (e) if Quantity I = Quantity II or no relation can be established

**Q63. Quantity I:** Profit earned on selling an article at Rs. 450 at 20% profit

**Quantity II:** Cost price of the article which is sold at Rs.84 on 20% profit

**Q64. In a village there are 60% males and rest are females. 30% of total male are illiterate and 25% of total female are illiterate. Number of illiterate males is 1152.**

**Quantity I:** Literate females in the village.

**Quantity II:** 1940

**Q65. A man invested Rs. P at 12% p.a. on simple interest for two years.**

**Quantity I:** If at the end of second year he gets Rs.1200 as interest, then find Rs.P.

**Quantity II:** Rs.6000

**Q66. Ploughing cost of a rectangular field is Rs.288 at the rate of Rs.3 per square meter. Length of the field is 4 meters more than the width of field.**

**Quantity I:** Length of rectangular field.

**Quantity II:** 12 meters.

**Q67. Quantity I:** Sum of present ages of Shivam and Prashant is 32 years and Shivam is 8 years older than Prashant. Find present age of Prashant.

**Quantity II:** 15 years.

**Q68. 'A' invested Rs.4000 and 'B' invested Rs.1000 more than A. After eight months 'C' invested Rs.3000. If at the end of the year 'C' gets profit of Rs.700, then find the total profit.**

(a) Rs.7000

(b) Rs.8400

(c) Rs.5600

(d) Rs.8800

(e) Rs.6400

**Q69. 440 meters long train passes a platform in 80 seconds. If speed of train is increased by 3 m/sec, then it crosses a pole in 22 seconds. Find the length of platform.**

(a) 720m

(b) 840m

(c) 700m

(d) 920m

(e) 900m

**Q70. Selling price of an article becomes Rs.2160 after giving two successive discounts of x% and 25% and marked price of article is Rs.3600. Find the cost price of article if there is a profit of x% on selling the article after giving two successive discounts.**

(a) Rs. 1720

(b) Rs.1500

(c) Rs.1600

(d) Rs.1800

(e) Rs.1900

**Q71. Three are 5 green balls, 7 blue balls and 3 red balls in a bag. If 2 balls are chosen randomly from the bag, then find the probability that at least one ball is green ball.**

- (a)  $\frac{1}{9}$
- (b)  $\frac{2}{7}$
- (c)  $\frac{3}{8}$
- (d)  $\frac{3}{5}$
- (e)  $\frac{4}{7}$

**Q72. Speed of boat in still water is six times of speed of stream. If boat covers 210 km in upstream in 7 hours, then find the downstream speed of boat?**

- (a) 42 km/hr.
- (b) 36 km/hr.
- (c) 30 km/hr.
- (d) 32 km/hr.
- (e) 24 km/hr.

**Q73. Length of rectangle 'A' is 125% of its breadth and area of rectangle 'A' is 1280 cm<sup>2</sup>. If width of rectangle 'A' is half of the side of a square, then find perimeter of square.**

- (a) 72m
- (b) 64m
- (c) 84m
- (d) 96m
- (e) 60m

**Q74. The average weight of a class of 45 girls is 53 kg. It was later found that weight of two girls was read as 49 kg and 57 kg instead of 45 kg and 52 kg. Find the actual average weight of the class.**

- (a) 54 kg
- (b) 53.40 kg
- (c) 50.6 kg
- (d) 52.80 kg
- (e) 51.5 kg

**Directions (75-80): Find the value of (?) in the following number series.**

**Q75. 1.5, 3, 12, 72, 576, ?**

- (a) 5480
- (b) 5620
- (c) 5580
- (d) 5340
- (e) 5760

**Q76. 80, 66, 85, 61, 90, ?**

- (a) 50
- (b) 56
- (c) 64
- (d) 60
- (e) 63

**Q77. 163, ?, 43, 23, 13, 8**

- (a) 92
- (b) 83
- (c) 78
- (d) 54
- (e) 69

**Q78. 150, 152, 157, 167, 184, ?**

- (a) 229
- (b) 245
- (c) 232
- (d) 210
- (e) 206

**Q79. 3.5, 2.5, 3, 6, 20, ?**

- (a) 95
- (b) 80
- (c) 65
- (d) 75
- (e) 90

**Q80. 6300, ?, 525, 105, 17.5, 2.5**

- (a) 2400
- (b) 2100
- (c) 4200
- (d) 5200
- (e) 3600



