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Q36. $\sqrt{124 + ? + 169} = 18$

- (a) 34
- (b) 31
- (c) 33
- (d) 35
- (e) 32

Q37. $136 \div 2^2 \times ? = 17\% \text{ of } 500 \div 10$

- (a) 0.75
- (b) 1.33
- (c) 0.25
- (d) 1.66
- (e) 0.5

Q38. $115 \div 5 + 12 \times 6 = ? + 64 \div 4 - 35$

- (a) 114
- (b) 118
- (c) 108
- (d) 116
- (e) 111

Q39. $41\% \text{ of } 600 - 250 = ? - 77\% \text{ of } 900$

- (a) 693
- (b) 675
- (c) 684
- (d) 679
- (e) 689


Q40. $\frac{360}{?} = 73 + 3^3$

- (a) 3.4
- (b) 4.3
- (c) 3.1
- (d) 3.6
- (e) 3.9

Q41. $\frac{1}{2} - \frac{3}{5} + 4\frac{2}{3} = ? + \frac{5}{6}$

- (a) $3\frac{11}{15}$
- (b) $5\frac{11}{15}$
- (c) $3\frac{11}{12}$
- (d) $2\frac{11}{12}$
- (e) $4\frac{11}{15}$

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Q42. $65 \times 3 \div 13 + 67 - ?^2 = 81 \div 9 \times 2$

- (a) 9
- (b) 5
- (c) 12
- (d) 8
- (e) 14

Q43. $(2744)^{1/3} + (18)^2 - 121 = ? - 69 \times 5$

- (a) 658
- (b) 568
- (c) 666
- (d) 656
- (e) 562

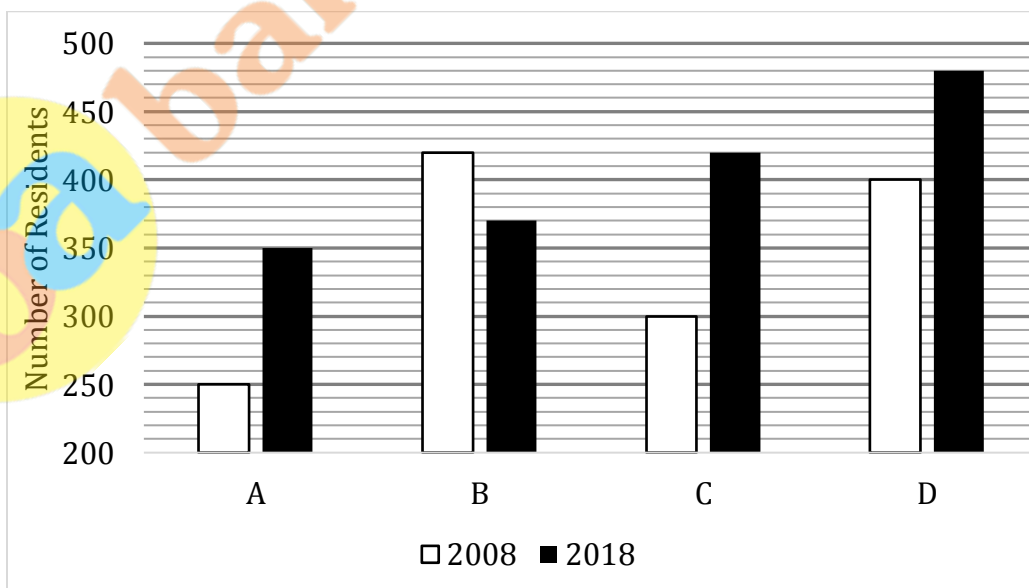
Q44. $1111 \div 11 + 2002 \div 26 + 750 \div 25 = ?$

- (a) 204
- (b) 212
- (c) 208
- (d) 206
- (e) 210

Q45. $\frac{5}{11} \times 121 + 1\frac{4}{9} \times 288 = 141 + ?$

- (a) 333
- (b) 327
- (c) 335
- (d) 330
- (e) 329

Directions (46 – 50): Given bar graph shows the number of residents residing in 4 societies in years 2008, 2018. Read the data carefully and answer the questions carefully.



Q46. What is average of residents residing in society A in 2008, B in 2018, C in 2018 & D in 2008?

- (a) 355
- (b) 360
- (c) 365
- (d) 370
- (e) 350

Q47. Residents residing in society B in 2008 are what percent more/less than average of residents residing in society D in 2008 & 2018?

- (a) $5\frac{6}{11}\%$
- (b) $3\frac{6}{11}\%$
- (c) $6\frac{6}{11}\%$
- (d) $7\frac{6}{11}\%$
- (e) $4\frac{6}{11}\%$

Q48. Which society shows maximum percentage increase in no. of residents from year 2008 to 2018?

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

Q49. What is ratio of all residents in all societies in 2008 to that of in 2018?

- (a) 142 : 157
- (b) 157 : 142
- (c) 162 : 137
- (d) 137 : 162
- (e) 97 : 114

Q50. What is difference between number of residents residing in society A & B in 2018 together and that of in society C & D together in 2008?

- (a) 30
- (b) 24
- (c) 20
- (d) 28
- (e) 26

Q51. A shopkeeper sells two pens, he sold 1 pen at profit and other pen at loss. SP of each of the two pens is Rs.300 and profit percentage on 1 pen is equal to loss percentage on other. If overall loss of shopkeeper is 6.25%, then find difference between cost price of both pen.

- (a) Rs.350
- (b) Rs.100
- (c) Rs.240
- (d) Rs.160
- (e) Rs.300

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Q52. A man received Rs.3456 when he invested Rs.P at 12% p.a. at SI for 3 years. If he invested Rs. (P + 4400) at 15% p.a. at CI compounding annually for 2 years, then find the interest received by him.

- (a) Rs.4515
- (b) Rs.4960
- (c) Rs.4725
- (d) Rs.4185
- (e) Rs.4345

Q53. Time taken by a boat to cover 162 km each in downstream and in upstream is 14 hours and 24 minutes. If speed of stream is 6 km/hr., then find the time taken by boat to cover 240 km in upstream.

- (a) $7\frac{1}{3}$ hours
- (b) $18\frac{2}{3}$ hours
- (c) $9\frac{1}{3}$ hours
- (d) $16\frac{2}{3}$ hours
- (e) $13\frac{1}{3}$ hours

Q54. C is 100% more efficient than B. A alone can complete a piece of work in 9 days and B & C together can complete the same work in $2\frac{2}{3}$ days. Find what portion of work will be completed, if A & B works together for 4 days.

- (a) $\frac{13}{18}$
- (b) $\frac{8}{9}$
- (c) $\frac{5}{6}$
- (d) $\frac{2}{3}$
- (e) $\frac{17}{18}$

Q55. Ratio of age of P 2 years ago to age of R 2 years hence is 1 : 2 and Q's present age is 25% more than P's present age. If average of present age of P & R is 39 years, then find difference between P's age 5 years hence and R's present age.

- (a) 12 years
- (b) 17 years
- (c) 21 years
- (d) 15 years
- (e) 14 years

Directions (56 – 60): Solve the following quadratic equation and mark the answer as per instructions.

Q56. I. $x^2 - 2x - 143 = 0$

II. $y^2 - 169 = 0$

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

Q57. I. $x^2 - 7x - 18 = 0$

II. $y^2 - 19y + 90 = 0$

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

Q58. I. $2x^2 + 5x + 3 = 0$

II. $y^2 + 4y - 12 = 0$

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

Q59. I. $9x + 3y = 15$

II. $4x + 5y = 14$

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

Q60. I. $2x^2 - x - 1 = 0$

II. $3y^2 - 5y + 2 = 0$

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

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

Q61. 2, 3, 6, 15, 45, 156.5, 630

- (a) 2
- (b) 15
- (c) 3
- (d) 156.5
- (e) 630

Q62. 36, 20, 12, 8, 6, 5.5, 4.5

- (a) 8
- (b) 36
- (c) 5.5
- (d) 4.5
- (e) 6

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Q63. 1, 3, 9, 31, 128, 651, 3913

- (a) 31
- (b) 3
- (c) 1
- (d) 3913
- (e) 128

Q64. 2, 3, 10, 40, 172, 885, 5346

- (a) 40
- (b) 885
- (c) 172
- (d) 3
- (e) 10

Q65. 5, 8, 16, 26, 50, 98, 194

- (a) 5
- (b) 194
- (c) 8
- (d) 16
- (e) 98

Q66. A rectangular path of width 3m is surrounding the garden whose length is 3m more than its width. If cost of painting the path at rate of 0.5Rs/m² is Rs 273 then find the area of garden

- (a) 1525m²
- (b) 1804 m²
- (c) 1776 m²
- (d) 1906 m²
- (e) 1664 m²

Q67. In a class percentage of students who passed the exam is 60% and number of boys & girls who passed the exam is same. If boys who failed the exam are 200% more than girls who failed in exam then find the percentage of girls who failed out of total students

- (a) 9%
- (b) 13%
- (c) 10%
- (d) 12%
- (e) 15%

Q68. A man invested Rs.X at 15% p.a. at SI for 4 years and Rs.(1.35X) at 18% p.a. at SI for 3 years. If total interest received by man is Rs.15948, then find value of Rs.(3.12X).

- (a) Rs.50544
- (b) Rs.42764
- (c) Rs.32580
- (d) Rs.47372
- (e) Rs.37440

Q69. A man covers $6\frac{1}{4}\%$ distance via bus at 80 km/hr, 25% of the distance via car at 120 km/hr., 30% distance via bicycle at 32 km/hr. and remaining distance via train at 62 km/hr. If total distance covered by man is 640km, then find the total time taken man during the entire journey.

- (a) $\frac{65}{6}$ hours
- (b) 13 hours
- (c) $\frac{44}{3}$ hours
- (d) $\frac{31}{2}$ hours
- (e) $\frac{71}{6}$ hours

Q70. Average weight of a class is 60kg and average weight of boys in the class is 80kg. Ratio of boys to girls in the class is 5 : 4. If there are 72 students in the class, then find the average weight of girls in the class.

- (a) 54 kg
- (b) 42 kg
- (c) 35 kg
- (d) 45 kg
- (e) 38 kg

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