

Directions (66-70): What should come in place of question mark (?) in the following questions?

Q66. 18, 8, 6, 9, 32, ?

- (a) 248
- (b) 254
- (c) 251
- (d) 257
- (e) 260

Q67. 36, 18, 6, 3, 1, ?

- (a) 0.5
- (b) 0.25
- (c) 0.75
- (d) 0.3
- (e) 1

Q68. 18, 29, 42, 53, ?, 77

- (a) 63
- (b) 64
- (c) 65
- (d) 66
- (e) 67

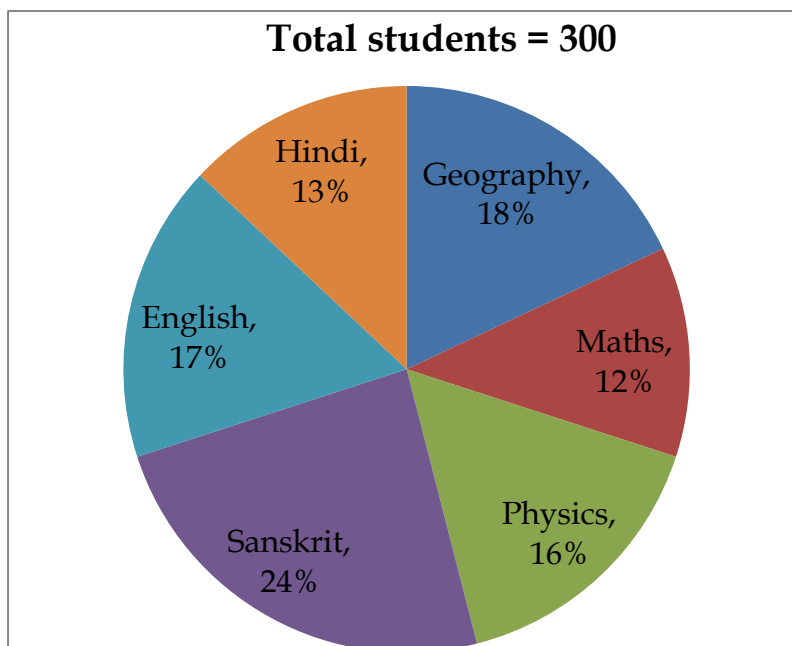
Q69. 1, 244, 163, 190, 181, ?

- (a) 178
- (b) 184
- (c) 187
- (d) 190
- (e) 193

Q70. 250, ?, 190, 167, 148, 131

- (a) 215
- (b) 217
- (c) 223
- (d) 221
- (e) 219

Direction (71-75): Pie chart given below shows total number of students who opted different subjects for exam in July 2017. Study the data carefully and answer the following questions



Q71. Total number of students who opted for Geography and Maths together is how much less than total number of students who opted for Sanskrit and Physics together?

- (a) 24
- (b) 27
- (c) 30
- (d) 33
- (e) 36

Q72. Find the total number of students who gave exams in August 2017 if total number of students is increased by 20% in August 2017 as compared to July 2017.

- (a) 450
- (b) 420
- (c) 390
- (d) 330
- (e) 360

Q73. Find the central angle of total number of students who opted for Physics?

- (a) 57.6°
- (b) 54°
- (c) 50.4°
- (d) 43.2°
- (e) 64.8°

Q74. Find the average number of students who opted for Hindi, Geography and Sanskrit together?

- (a) 54
- (b) 55
- (c) 56
- (d) 57
- (e) 58

Q75. Find the ratio between total number of students who opted for English, Physics and Geography together to total number of students who opted for Hindi, English and Sanskrit together?

- (a) 8 : 9
- (b) 17 : 19
- (c) 15 : 16
- (d) 17 : 18
- (e) 5 : 6

Directions (76-79): What should come in place of question mark (?) in the following questions?

Q76. $? = \sqrt{16 \times 15 + 24 \times 12 + 97}$

- (a) 25
- (b) 24
- (c) 28
- (d) 27
- (e) 35

Q77. 28% of 420 + 36% of 540 = ?

- (a) 312
- (b) 288
- (c) 296
- (d) 318
- (e) 324

Q78. 75% of 450 + 25% of 850 = ?

- (a) 540
- (b) 580
- (c) 550
- (d) 560
- (e) 555

Q79. $\sqrt{7396} + \sqrt{?} = 104$

- (a) 256
- (b) 400
- (c) 361
- (d) 289
- (e) 324

Q80. Present average age of A, B and C is 22 years. Three years ago, Average age of B and C is 18 years, then find A's age 9 years hence?

- (a) 24 years
- (b) 27 years
- (c) 30 years
- (d) 33 years
- (e) 36 years

Q81. Ratio between speed of boat in still water to speed of stream is 8 : 1. If 67.5km is travelled downstream in 2.5 hours then find the difference between speed of boat in still water to speed of stream(in kmph)?

- (a) 15
- (b) 3
- (c) 24
- (d) 21
- (e) 17.5

Q82. The perimeter of a rectangle whose length is 6 m more than its breadth is 84 m. What will be the area of the rectangle? (in m²)

- (a) 446
- (b) 340
- (c) 432
- (d) 468
- (e) 348

Q83. Interest earned on an amount after 2years at 20%p.a compounded yearly is Rs.1716. Find the interest earned on same amount after 3 years at 15%p.a at Simple interest.

- (a) Rs. 1620
- (b) Rs.1755
- (c) Rs.1665
- (d) Rs.1710
- (e) Rs.1750

Q84. In place of 18% profit an article is sold at 42% profit and seller gets Rs. 110.40 more. Find the selling price of article if it were sold at 25% profit?

- (a) Rs. 440
- (b) Rs.460
- (c) Rs.575
- (d) Rs.550
- (e) Rs.525

Q85. A and B working alone can do a work in 20 days and 15 days respectively. They started the work together but B left after sometime and A finished remaining work in 6 days. Find after how many days from start B left the work ?

- (a) 5 days
- (b) 4 days
- (c) 6 days
- (d) 3 days
- (e) 7 days

Directions (86-90): In each of these questions, two equations are given. You have to solve both the equations and give answer

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

Q86. (i) $x^2 = 196$

(ii) $y^2 + 2y - 48 = 0$

Q87. (i) $x^2 - 11x + 24 = 0$

(ii) $y^2 - 14y + 45 = 0$

Q88. (i) $2x^2 - 4x + 2 = 0$

(ii) $2y^2 - y - 1 = 0$

Q89. (i) $x^2 - 15x + 56 = 0$

(ii) $y = \sqrt{64}$

Q90. (i) $x^2 - x - 6 = 0$

(ii) $y^2 - 6y + 8 = 0$

Directions (91-94): What should come in place of question mark (?) in the following questions?

Q91. $\sqrt{441} - \sqrt{144} = \sqrt{?}$

- (a) 81
- (b) 9
- (c) 100
- (d) 10
- (e) 121

Q92. $18\frac{2}{3} - 7\frac{1}{4} = ? + 1\frac{1}{2}$

- (a) 9
- (b) $10\frac{1}{12}$
- (c) $9\frac{11}{12}$
- (d) $9\frac{5}{6}$
- (e) 10

Q93. $\sqrt{484} \times \sqrt{169} = ? + 50\% \text{ of } 312$

- (a) 160
- (b) 150
- (c) 140
- (d) 130
- (e) 120

Q94. $15^2 + 36^2 = ? \times \sqrt[3]{2197}$

- (a) 127
- (b) 117
- (c) 137
- (d) 147
- (e) 153

Q95. The profit earned on selling two articles is Rs. 80 less than profit earned on selling three articles. If 20% profit is earned on selling one article, then find the cost price of the article?

- (a) Rs.200
- (b) Rs.600
- (c) Rs.1200
- (d) Rs.800
- (e) Rs.400

Q96. Quantity I: 'x': Train 'A' running at a speed of 25m/sec crosses Train 'B' coming from opposite direction running at a speed of 15m/sec in 12 seconds. Length of train 'A' is twice of train 'B'. Length of train 'A' is 'x'

Quantity II: 160 meters.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I $\leq$ Quantity II
- (e) Quantity I = Quantity II or No relation

Q97. Average of three numbers b, c and d is 1 more than average of a, b and c. Average of a and d is 19.5

Quantity I: Number 'a'

Quantity II: 21

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I $\leq$ Quantity II
- (e) Quantity I = Quantity II or No relation

Q98. Quantity I: 'x': A pipe alone can fill a cistern in 60 minutes. But due to leakage pipe filled only 80% of the cistern in 1 hour. 'x' is the capacity of cistern in liters if due to leakage 60liter can be leaked out in 1 hour.

Quantity II: 250 liters

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I $\leq$ Quantity II
- (e) Quantity I = Quantity II or No relation

Q99. Quantity I: 'x': Ratio between speed of boat in still water to speed of stream is 2 : 1. Total time taken by a man to cover 72km in upstream and come back is 32 hours. 'x' is the downstream speed in kmph

Quantity II: 9 kmph

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I $\leq$ Quantity II
- (e) Quantity I = Quantity II or No relation

Q100. Quantity I: 'x': Area of a square is 324cm^2 whose perimeter is equal to perimeter of a rectangle. Length of rectangle is 4cm more than breadth of rectangle. 'x' is the area of rectangle

Quantity II: 320 cm^2 .

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I $\geq$ Quantity II
- (d) Quantity I $\leq$ Quantity II
- (e) Quantity I = Quantity II or No relation