





Section : Quantitative Aptitude

Q.1 If $\sec \theta = \frac{13}{5}$, then $\tan \theta - \sin \theta + \cos \theta$ is equal to:

- Ans
-  1. $\frac{118}{65}$
 -  2. $\frac{23}{13}$
 -  3. $\frac{124}{65}$
 -  4. $\frac{121}{65}$

Q.2 The radii of the two circular faces of the frustum of a cone of height 14 cm are 5 cm and 2 cm. What is its volume in cm^3 ? ($\pi = \frac{22}{7}$)

- Ans
-  1. 540
 -  2. 520
 -  3. 572
 -  4. 560

Q.3 The difference between the compound interest and simple interest on ₹x at 12% per annum for 2 years is ₹18. What is the value of x?

- Ans
- ☒ 1. 1,280
 - ☒ 2. 1,300
 - ☒ 3. 1,340
 - ☒ 4. 1,250

Q.4 A train without stoppage travels with an average speed of 80 km/h and with stoppage, it travels with an average speed of 72 km/h. For how many minutes does the train stop on an average per hour?

- Ans
- ☒ 1. 7
 - ☒ 2. 6
 - ☒ 3. 8
 - ☒ 4. 9

Q.5 If $a + b = 8$ and $ab = \frac{32}{3}$, then $(a^3 + b^3)$ is equal to:

- Ans
- ☒ 1. 256
 - ☒ 2. 384
 - ☒ 3. 128
 - ☒ 4. 320

Q.6 This table shows the number of students studying in various streams in different colleges.

Streams	College				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330


If the data about students of the commerce stream in all colleges is represented by a pie-chart, what is the central angle of the sector representing college D, to the nearest degree?

- Ans
- ☒ 1. 88°
 - ☒ 2. 85°
 - ☒ 3. 82°
 - ☒ 4. 80°

Q.7 The value of:

$$5.8 + (7.4 \div 3.7 \times 5) - 6 \times 2 \div 2.5$$

Ans  1. 11

 2. 12

 3. 9

 4. 10

Q.8 For what value of x is the seven digit number $46393x8$ divisible by 11?

Ans  1. 5

 2. 2

 3. 3

 4. 7

Q.9 If $a + b + c = 4$ and $ab + bc + ca = 2$, then $a^3 + b^3 + c^3 - 3abc$ is equal to:

Ans  1. 48


 2. 40


 3. 32


 4. 36

Q.10 In a class of 50 students, 46% are girls and the remaining are boys. The average of the boys' marks is 58 and that of the girls is 62. What are the average marks of the whole class?

Ans  1. 60.65





 2. 60.38

 3. 60.12





 4. 59.84

Q.11 The value of $\sin^2 48^\circ + \sin^2 42^\circ - \sec^2 30^\circ + \tan^2 60^\circ$ is equal to:

Ans

-  1. $\frac{5}{3}$
 2. $\frac{7}{3}$
 3. 2
 4. $\frac{8}{3}$

Q.12 $\triangle ABC \sim \triangle QPR$ and $AB = 8$ cm, $BC = 12$ cm and $AC = 6$ cm. If $\text{ar}(\triangle ABC) : \text{ar}(\triangle PQR) = 16 : 25$, then RQ is equal to:

- Ans**  1. 12.5 cm
 2. 10 cm
 3. 15 cm
 4. 7.5 cm

Q.13 Two chords AB and CD of a circle intersect at a point P inside the circle. If $AB = 7$ cm, $PC = 2$ cm and $AP = 4$ cm, then CD is equal to:

- Ans**  1. 8 cm
 2. 5 cm
 3. 4 cm
 4. 6 cm

Q.14 Two articles are sold for ₹2508 each. On one, there is a gain of 14% and on the other, there is a loss of 12%. What is the overall gain or loss percent to nearest one decimal place?

- Ans**  1. 0.7% loss
 2. 0.7% gain
 3. 0.5% loss
 4. 0.5% gain

Q.15

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This table shows the number of students studying in various streams in different colleges.

Streams	College				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

What is the average of the number of students in the arts stream in all the colleges taken together?

- Ans
-  1. 460
 -  2. 450
 -  3. 470
 -  4. 440

Q.16 A is 50% more efficient than B and C is 40% less efficient than B. Working together, they can complete a task in 10 days. In how many days will A alone complete 150% of that task?

- Ans
-  1. 35
 -  2. 33
 -  3. 31
 -  4. 28

Q.17 This table shows the number of students studying in various streams in different colleges.

Streams	College				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

What is the ratio of the number of students studying science in colleges A and B together to the number of students studying commerce in colleges D and E together?

- Ans
-  1. 23 : 15
 -  2. 26 : 17
 -  3. 21 : 17
 -  4. 13 : 8

Q.18

This table shows the number of students studying in various streams in different colleges.

Streams	College				
	A	B	C	D	E
Arts	580	460	320	470	370
Science	620	680	540	360	400
Commerce	480	520	350	520	330

The number of students in the science stream of college C is approximately what percentage of students studying in that college?

- Ans
- ☒ 1. 42%
 - ☒ 2. 43%
 - ☒ 3. 45%
 - ☒ 4. 44%

Q.19 If $\sin 5\theta = \cos(50^\circ - 3\theta)$, then θ is equal to:

- Ans
- ☒ 1. 20°
 - ☒ 2. 25°
 - ☒ 3. 30°
 - ☒ 4. 15°

Q.20 In $\triangle ABC$, P is a point on BC such that $BP : PC = 1 : 2$ and Q is the mid point of BP. Then, $\text{ar}(\triangle ABQ) : \text{ar}(\triangle ABC)$ is equal to:

- Ans
- ☒ 1. 1 : 5
 - ☒ 2. 1 : 3
 - ☒ 3. 1 : 4
 - ☒ 4. 1 : 6

Q.21 In a circle with centre O, AB is the diameter and CD is a chord such that ABCD is a trapezium. If $\angle BAC = 24^\circ$, then $\angle CAD$ is equal to:

- Ans
- ☒ 1. 42
 - ☒ 2. 36
 - ☒ 3. 48
 - ☒ 4. 24

Q.22 The price of sugar is increased by 21%. A person wants to increase his expenditure by 12% only. By what percent, correct to one decimal place, should he reduce his consumption?

- Ans ☒ 1. 7.4%
☐ 2. 7.8%
☐ 3. 7.2%
☐ 4. 7.6%

Q.23 An article is sold for ₹535.50 after two successive discounts of 25% and 15%. What is the marked price of the article?

- Ans ☐ 1. ₹820
☐ 2. ₹830
☒ 3. ₹840
☐ 4. ₹800

Q.24 If $a : b = 5 : 8$ and $c : b = 4 : 3$, then $a : b : c$ is equal to:

- Ans ☐ 1. 5 : 6 : 8
☐ 2. 15 : 24 : 28
☒ 3. 15 : 24 : 32
☐ 4. 5 : 8 : 6

Q.25 If $\sqrt{x} + \frac{1}{\sqrt{x}} = \sqrt{7}$, then $x^3 + \frac{1}{x^3}$ is equal to:

- Ans ☐ 1. 120
☐ 2. 140
☒ 3. 110
☐ 4. 130



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