



NEW PATTERN QUANTITATIVE TECHNIQUES PRACTICE QUESTIONS



For CLAT Exam 2020

CLAT – Quantitative Technique Questions

1. In a mixture 60 litres, the ratio of milk and water 2 : 1. If this ratio is to be 1 : 2, then the quantity of water to be further added is:

a) 20 litres
b) 30 litres
c) 40 litres
d) 60 litres

Answer: **option d**

2. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

a) 2 : 3 : 4
b) 6 : 7 : 8
c) 6 : 8 : 9
d) None of these

Answer: **option a**

3. Salaries of Anil and Sunil are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Sunil's salary?

a) Rs. 17,000
b) Rs. 20,000
c) Rs. 25,500
d) Rs. 38,000

Answer: **option d**

4. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

a) 27
b) 33
c) 49
d) 55

Answer: **option b**

5. If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

- a) 2 : 5
- b) 3 : 7
- c) 5 : 3
- d) 7 : 3

Answer: option c

(Directions 6 – 10) Study the cases and answer the following

There are five Taps of different capacities - T1, T2, T3, T4 and T5.

T1: It takes 10 minutes to fill the 20% of the tank.

T2: It takes 15 minutes to fill the 10% of the tank.

T3: It takes 45 minutes to fill the 15% of the tank.

T4: It takes 30 minutes to fill the 30% of the tank.

T5: It takes 35 minutes to fill the 25% of the tank.

6. A tank has 3 taps. T1 and T2 to fill the tank and third Tap to make it empty. The 3rd tap is takes 60 minutes to empty 75% of the tank. All the 3 taps are opened in the beginning. After 14 minutes, 3rd tap is closed. In how much time, will the rest of the tank be full?

- a) 30.0625 minutes
- b) 15.125 minutes
- c) 45.0312 minutes
- d) 60 minutes

Answer: option a

7. aps T3 and T4 are filling the tank while a 3rd tap can empty the full tank in 50 minutes. T3 and T4 are kept open for 10 minutes in the beginning and then 3rd tap is also opened. In how much time will the tank be emptied?

- a) 28 minutes
- b) 25 minutes
- c) 21 minutes

d) 20 minutes

Answer: **option d**

8. Taps T1 and T5 are used to fill the tank. There is a 3rd tap in the bottom of tank to empty it. If all the three taps are simultaneously opened, then the tank is full in 50 minutes. In how much time, the 3rd Tap alone can empty the tank?

- a) 130 minutes
- b) 120 minutes
- c) 140 minutes
- d) 60 minutes

Answer: **option c**

9. Two taps T3 and T4 can fill a tank and a waste tap can empty in 150 minutes. All the 3 taps working together can fill the tank in 150 minutes. The capacity of the tank is:

- a) 180 units
- b) 300 units
- c) 250 units
- d) 340 units

Answer: **option b**

10. A large tanker can be filled by two taps T2 and T3. How many minutes will it take to fill the tanker from empty state if T2 is used for half the time and T3 and T2 fill it together for the other half?

- a) 60 minutes
- b) 45 minutes
- c) 30 minutes
- d) None of these

Answer: **option d**

11. 66 cubic centimetres of silver is drawn into a wire 1 mm in diameter. The length of the wire in metres will be:

- a) 84
- b) 90
- c) 168

d) 336

Answer: **option a**

12. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm³, then the weight of the pipe is:

- a) 3.6 kg
- b) 3.696 kg
- c) 36 kg
- d) 36.9 kg

Answer: **option b**

13. 50 men took a dip in a water tank 40 m long and 20 m broad on a religious day. If the average displacement of water by a man is 4 m³, then the rise in the water level in the tank will be:

- a) 20 cm
- b) 25 cm
- c) 35 cm
- d) 50 cm

Answer: **option b**

14. A cistern 6m long and 4 m wide contains water up to a depth of 1 m 25 cm. The total area of the wet surface is:

- a) 49 m²
- b) 50 m²
- c) 53.5 m²
- d) 55 m²

Answer: **option a**

15. A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m³) is:

- a) 4830
- b) 5120
- c) 6420
- d) 8960

answer: **option b**

16. There are two examinations rooms A and B. If 10 students are sent from A to B, then the number of students in each room is the same. If 20 candidates are sent from B to A, then the number of students in A is double the number of students in B. The number of students in room A is:

- a) 20
- b) 80
- c) 100
- d) 200

Answer: **option c**

17. The price of 2 sarees and 4 shirts is Rs. 1600. With the same money one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay ?

- a) Rs. 1200
- b) Rs. 2400
- c) Rs. 4800
- d) Cannot be determined

answer: **option b**

18. A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

- a) 2.91 m
- b) 3 m
- c) 5.82 m
- d) None of these

Answer: **option b**

19. A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?

- a) 20
- b) 24
- c) 30
- d) 33

Answer: **option c**

20. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ 26.50 per metre is Rs. 5300, what is the length of the plot in metres?

- a) 40
- b) 50
- c) 120
- d) None of These

Answer: **option d**

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