QUANTITATIVE ABILITY:
Sample Questions
By Btechzone.com

All questions are Multiple-Choice-Questions with only one option as the correct answer.

Q1. In a kilometre race, if A gives B a 40 m start, A wins by 19 s. But if A gives B a 30 s start, B wins by 40 m. Find the time taken by B to run 5,000 m?

a. 150 s
b. 450 s
c. 750 s
d. 825 s

Q2. Pipe A takes 16 min to fill a tank. Pipes B and C, whose cross-sectional circumferences are in the ratio 2:3, fill another tank twice as big as the first. If A has a cross-sectional circumference that is one-third of C, how long will it take for B and C to fill the second tank? (Assume the rate at which water flows through a unit cross-sectional area is same for all the three pipes.)

a. 66/13
b. 40/13
c. 16/13
d. 32/13

Q3. Three consecutive whole numbers are such that the square of the middle number is greater than the product of the other two by 1. Find the middle number.

a. 6
b. 18
c. 12
d. All of these

Q4. The arithmetic mean of 2 numbers is 34 and their geometric mean is 16. One of the numbers will be

a. 4
b. 16
c. 18
d. 12

Q5. If x% of a is the same as y% of b, then z% of b is :

a. (xy/z)% of a
b. (yz/x)% of a
c. (xz/y)% of a
d. None of these

Q6. The letters of the word WOMAN are written in all possible orders and these words are written out as in a dictionary ,then the rank of the word 'WOMAN' is

a. 117
b. 120
c. 118
d. 119

Q7. What least number must be subtracted from 9400 to get a number exactly divisible by 65?

a. 40

b. 20
c. 80
d. none of these

Q8. If 2505 / 0.5 = 5010 then 25.05 / 0.5 = ?

a. 5.010
b. 50.10
c. 501.0
d. None of these

Q9. Which pair of rational numbers lie between 1/5 and 2/5 -

a. 262/1000, 275/1000
b. 362/1000, 562/1000
c. 451/1000, 552/1000
d. 121/1000,131/1000

Q10. What is the value of the following expression: $2 \log_{10} 5 + \log_{10} 4$?

a. 2
b. 2.5
c. 3
d. None of these

Q11. If x increases linearly, how will a^{-x} behave (a>1) ?

a. Increase linearly
b. Decrease linearly
c. Increase exponentially
d. Decrease exponentially

Q12. What is the probability of getting the sum 5 in two throws of the dice?

a. 1/12
b. 1/5
c. 1/9
d. None of these