

Gokhale Education Society's
Dr T K Tope Arts and Commerce College, Parel, Mumbai 400012
FYBCOM Sem-I

Subject: OE-I: - Quantitative Techniques-I Marks – 30 Time: 1 hr.

Attempt any TWO of the THREE questions.

Q.1) Attempt any three of the following (5 marks each)

15 m

- 1) Evaluate a) $(93+15) \div (3 \times 4) - 24 + 8$ b) find gcd of 124 and 348 by division algorithm.
2) Calculate mean of the following data:

Interval	10-25	25-40	40-55	55-70	70-85	85-100
Frequency	2	3	7	6	6	6

- 3) If 5 men can make 10 pens in 6 days working 6 hrs. a day. Then how many days can 12 men take 16 pens working 8 hrs. per day?
4) A 500 m long train running at a speed of 100 m/s crosses a tunnel in 10 s. What is the length of the tunnel?

Q.2) Attempt any three of the following (5 marks each)

15 m

- 1) If article sold for 2400 at a profit of 25%. What would have been the actual profit or loss if it had been sold at 1800?
2) A man travelled 12 km at a speed of 4 km/h and further 10 km at a speed of 5 km/h, what was his average speed?
3) If article sold for 2400 at a profit of 25%. What would have been the actual profit or loss if it had been sold at 1800?
4) If A.M. and H.M. of observations are 9 and 49 respectively, then find the geometric mean.

Q.3) Attempt any three of the following (5 marks each)

15 m

- 1) It takes 2 pipes A and B, to fill the tank in 6 minutes. It takes A 5 minutes less than B to fill the tank, then what will be the time by B alone to fill the tank?
2) A person travels from his house to office at a speed of 70 km/h. He suddenly returns home at a speed of 80 km/h. What is his average speed?
3) Calculate mean of the following data:

Interval	11-13	13-15	15-17	17-19	19-21	21-23	23-25
Frequency	7	6	9	13	20	5	4

- 4) Evaluate a) $(7+18) \times 3 \div (2+13) - 28$ b) find gcd of 482 and 288 by division algorithm