ST. JOSEPH'S COLLEGE (AUTONOMOUS) BENGALURU-27
MID SEMESTER EXAMINATION- AUGUST 2019
B.COM /BPS - I SEMESTER
BC1418 / BPS 1418: QUANTITATIVE TECHNIQUES

TIME: 1 Hour

MAX. MARKS: 30 Marks

SECTION A

Answer any FIVE of the following questions. Each question carries two marks. (5x2=10)

1) The bell at SJC in three different academic block rings at 52 secs, 60 secs, and 65 secs respectively. At what time do they all ring together simultaneously?

2) A fruit seller cheats his customer on the weights of fruits. The fruits weighed 1750grams instead of 2000grams. Find the fruits seller's gain and gain percentage.

3) If Motu can complete a part of work in 10 days and Chotu can complete the work in 12 days, how many days will they both take to complete the work together?

4) What principal invested today will amount to Rs. 6540 in 4 years at 12% per annum of Compound interest?

5) A Father is thrice as old as his son. 15 years later, father will be twice as old as his son. Find their present age?

6) The marked price of an electric cooker is Rs. 5720 after a trade discount of 12%. Find the net price.

7) The sum of six times a number and 7 times the other number is 130. Find the number.

SECTION B

Answer any TWO of the following questions. Each question carries five marks. (2x5=10)

8) i) Mr. X and Mrs. X invested Rs. 45,000 and Rs. 65,000 in a textile business. Their profit for the previous year was Rs. 9780. What is their capital contribution ratio? Find out how much will each receive? **(5)**

9) 8 men playing PUBG game 3 hours daily can win a match in 5 days. How many days will it take for 16 men playing 2 hours daily can win 3 matches respectively? (5)

10) The sum of a movie ticket and 2 units of popcorn for the premier show "The Lion king" at Priya Village Roadshow cost Rs.560, whereas, the sum of 2 movie tickets and a unit of popcorn at INOX Leisure Limited cost Rs. 820. Find the cost of each ticket and popcorn. (5)

SECTION C

Answer the following compulsory question. The question carries ten marks. (1x10=10)

11) i) If a:b= 3:5 and b:c=6:7 Find a:b:c.

(2)

ii) Ria's salary is 10% more than Jia. How much Percentage is Jia's salary less than that of Ria?

(3)

iii) A Man plans for an all India road trip in his Royal Enfield covering a distance of 1200kmph. If he increases the speed limit by 60kmph he can reach the Capital city One hour earlier. Find his initial speed.

(5)

*********** End of Question Paper *****************