## ST. JOSEPH'S EVENING COLLEGE (AUTONOMOUS)

## IV SEMESTER BCA EXAMINATIONS - APRIL 2019

## QUANTITATIVE TECHNIQUES

## Duration: 2.5 Hours

Max. Marks: 70
SECTION - A
I) Answer any SIX of the following questions.

1. $(796 \times 796-204 \times 204)=$ ?
2. An unbiased die is tossed. Find the probability of getting a multiple of 3
3. How many words can be formed by using all letters of the word 'BIHAR'?
4. Divide rupees 1162 among $\mathrm{A}, \mathrm{B}, \mathrm{C}$ in the ratio $35: 28: 20$
5. Find the average of first 20 multiples of 7 ?
6. What is the square root of .0009 ?
7. Evaluate 31.004-17.2386
8. Find the H.C.F and L.C.M of .63,1.05 and 2.1

## SECTION - B

II) Answer any FOUR of the following questions.
9. The sum of two numbers is 15and the sum of their squares is 113 .Find the numbers
10. Find the wrong number in the series $5,8,20,42,124,246,736$
11. A third of Arun's marks in mathematics exceeds a half of his marks in English by 30.If he gets 240 marks in the two subjects together, how many marks did he get in English?
12. The average of four consecutive even numbers is 27 .Find the largest of these numbers.
13. 50 is divided into two parts such that the sum of their reciprocals is $1 / 12$. Find the two parts.
14. Evaluate a.) $(256)^{0.16 \times}(256)^{0.18}$

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\text { b.) }(.00032)^{3 / 5}
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## SECTION - C

III) Answer any TWO of the following questions.
15. The present age of a father is 3 years more than three times the age of his son. Three years hence, father's age will be 10 years more than twice the age of his son. Find the present age of his father
16. In a simultaneous throw of two dice, what is the probability of getting two numbers whose product is even?
17. There are two temples on each bank of a river, just opposite to each other. One temple is 54 m high. From the top of this temple, the angles of depression of the top and the foot of the other temple are 30 degrees and 60 degrees respectively. Find the width of the river and the height of the other temple.

