Reg. No. : ....

Name : ....

II Semester B.B.A./B.B.A.(TTM)/B.B.A. (RTM) Degree (CBCSS – Supplementary) Examination, April 2022
(2016 – 2018 Admissions)
Complementary Course
2C03 BBA/BBA(TTM)/BBA (RTM) : QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS

Time : 3 Hours   Max. Marks : 40

SECTION – A

Answer the **4** questions. **Each** question carries ½ marks.

1. What is classical probability ?

2. Define Set theory.

3. What do you mean by power of test ?

4. What is degree of freedom ?

SECTION – B

Answer **4** questions. **Each** carries **1** mark.

5. Differentiate independent and dependent event.

6. Mention any two merits of binomial distribution.

7. Mention any four programming technique.

8. What is non-parametric test ?

9. What are the uses of standard error ?

10. What is one way ANOVA ?

SECTION – C

Answer **any 6** questions (**not** exceeding **one** page). **Each** carries **3** marks.

11. Explain the functions of quantitative technique.

12. Explain the procedure of testing hypothesis.

13. Explain the importance of normal distribution.

14. The probability of a bomb hitting a target is 1/5. Two bombs are enough to destroy a bridge. If six bombs are aimed at the bridge, find the probability that the bridge is destroyed.

15. A card is drawn from as pack of 52 cards and a gambler bets it as a spade or an ace. What are the odds against his winning this bet ?

16. A bag contains 4 white, 2 black, 3 yellow and 3 red balls. What is the probability of getting a white or a red ball at random in a single draw ?

17. If the mean of a Possion distribution is 1.5, find mode and standard deviation.

18. Find the probability that the number of heads lie in the range 185 and 220 when a fair coin is tossed 400 times ?

SECTION – D

Answer **any 2** questions. **Each** carries **8** marks.

19. The following table gives the yield of three varieties.

Varieties	Yields				
1	30	27	42	–	–
2	51	47	37	48	42
3	44	35	41	36	–

Perform an analysis of variance.

20. The probability of student A passing an examination is 3/5 and of student B passing 4/5. Assuming the two events " A passes" and "B passes" as independent, find the probability of :

   • Both students passing the examination

   • Only A passing the examination

   • Only one of them passing the examination

   • None of them passing the examination.

21. The weekly wages of 1000 workmen are normally distributed around a mean of Rs. 70 and with a S.D of Rs.5. Estimate the number of workers whose weekly wages will be

   • Between Rs. 70 and Rs. 72

   • Between Rs. 69 and Rs. 72

   • More than Rs.75

   • Less than Rs. 63

   • Also estimate the lowest wages of the 100 highest paid workers.