

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 – AAnswer the 4 questions. Each question carries $\frac{1}{2}$ 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 $\frac{1}{5}$. Two bombs are enough to destroy a bridge. If six bombs are aimed at the bridge, find the probability that the bridge is destroyed.

P.T.O.



15. A card is drawn from a 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 Poisson 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 $\frac{3}{5}$ and of student B passing $\frac{4}{5}$. 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.