

15U346

(Pages: 2)

Name:

Reg. No.....

THIRD SEMESTER B.B.A. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS - UG)

CC15U BB3 C03 - QUANTITATIVE TECHNIQUES FOR BUSINESS

(Complementary Course)

(2015 Admission)

Time: Three Hours

Maximum: 80 Marks

Part A

(Answer all questions. Each Question carries 1 Mark)

1. When the values of two variables move in the same direction, correlation is said to be.....
2. Regression lines are also called.....
3. The result of a random experiment is called.....
4. Binomial distribution is originated by.....
5. In poisson distribution, mean is denoted by
6. The normal curve is
(a) Bi-model (b) uni-model (c) Binomial (d) none of these
7. The level of probability of accepting a true null hypothesis is called.....
(a) Degree of freedom (b) Level of significance (c) Level of acceptance (d) None of these
8. test is usually used as a test of homogeneity
(a) Chi-square test (b) Sign test (c) run test (d) signed rank test
9. The Yates correction is generally applied when the number of degree of freedom is.....
(a) >5 (b) <5 (c) >10 (d) <10
10. In a Binomial distribution, if $n=8$ and $p=1/3$, then variance =.....
(a) $8/3$ (b) $48/3$ (c) $64/3$ (d) $16/9$

(10 × 1 = 10 Marks)

Part B

(Answer any eight questions. Each Question carries 2 Marks)

11. Define Quantitative Techniques.
12. Define “ conditional Probability”.
13. What is meant by sample space?
14. Define “Independent event”.
15. What is a set?

(1)

16. What is level of significance?
17. What is meant by binomial distribution?
18. What are type I and type II errors?
19. What are the axioms of probability?
20. What do you mean by spurious correlation?

(8 x 2 = 16 Marks)

Part C

(Answer any six questions. Each Question carries 4 Marks)

21. Explain the different approaches to the Theory of Probability.
 22. What are the properties of Normal distribution?
 23. Discuss the role of correlation in business and economic studies.
 24. Find the values of $10C_3$, $10C_2$, $10C_1$, $10C_0$ and $10C_{10}$
 25. From the following data of values x and y, find the regression equation of y on x.
 26. In a binomial distribution consisting of 5 independent trials, first and second trials are 0.4096 and 0.2048 respectively. Find the parameter p.
 27. Find the coefficient of correlation between x and y and interpret the result
- | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| X : | 1.2 | 1.1 | 1.9 | 1.8 | 1.0 | 0.9 |
| Y : | 15 | 10 | 20 | 10 | 10 | 5 |
28. Distinguish between Correlation and Regression.

(6 x 4 = 24 Marks)

Part D

(Answer any two questions. Each question carries 15 Marks)

29. Discuss the scope and limitations of Quantitative Techniques
30. There are two urns one containing 5 white and 4 black balls. One urn is chosen and one ball is drawn. If it is white, what is the probability that the urn selected is the first.
31. The average life of 26 electric bulbs was found to be 1200 hours with a standard deviation of 150 hours. Test whether these bulbs could be considered as a random sample from a normal population with mean 1300 hours.

(2 x 15 = 30 Marks)
