K25FY3509 Pages: 2 Reg No:.....
Name:.....

Third Semester FYUGP Degree (Reg) Examination November 2025

KU3DSCBBA205 - QUANTITATIVE TECHNIQUES FOR BUSINESS MANAGEMENT

2024 Admission onwards

Time : 2 hours Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. Write three applications of normal distribution in real life.
2. Mention any three differences between Binomial and Normal distribution.
3. Write any three points on the importance of Quantitative Techniques.
4. List the mathematical classifications of Quantitative Techniques.
5. List the major classifications of Quantitative Techniques.
6. What is an alternate hypothesis?
7. Define degrees of freedom.
8. Give one example of a two-tailed test.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Define Quantitative Techniques and explain any three of its features.
10. Discuss the scope of Quantitative Techniques in business decision-making.
11. Briefly describe the application of Quantitative Techniques in managerial decision-making.
12. Differentiate between null and alternate hypothesis with an example.
13. Write a short note on parametric tests with examples.
14. Differentiate between one-tailed and two-tailed tests with an example.

Section C

Answer any 2 questions. Each carry 14 marks.

15. 100 radios are inspected as they come out of production line. The number of defects per set is given below
No. of defects: 0 1 2 3 4 No of sets : 79 18 2 1 0
fit a binomial distribution and calculate expected frequencies

16. During two hours between 8 and 10 AM on an average 1.5 number of phone calls per minute are reported in the switch board of a company. Find the probability that during one particular minute, in the said interval, there will be
(i) no phone call at all
(ii) exactly one phone call.

17. 800 electric fans have an average life of 150 days with a standard deviation of 25 days.
i. How many fans will fail in less than 120 days?
ii. How many will last between 140 and 160 days?

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