K26FY1336 Pages: 2 Reg No:.....
Name:.....

Second Semester FYUGP Degree (Reg/Sup/Imp) Examination April 2026

KU2DSCCOM110 - QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS

2024 Admission onwards

Time : 2 hours Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. What do you mean by Correlation Co-efficient?
2. What is negative correlation?
3. What is Seasonal Variation in Time Series? Give two examples.
4. Define Semi-average.
5. Define Moving Average.
6. Define independent event.
7. What is Sample point?
8. A bag contains 5 red, 3 blue and 2 green balls. One ball is drawn at random. Find the probability that the ball drawn is: a) Red, b) Blue, c) Not Green

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Differentiate Seasonal and Cyclical Variations.
10. Differentiate Additive and Multiplicative model of Time Series.
11. Fit a trend line to the following data by semi-average method

Year	Production (in tonnes)	Year	Production (in tonnes)
2000	280	2006	230
2001	300	2007	230
2002	280	2008	220
2003	280	2009	200
2004	270	2010	210
2005	240	2011	200

12. Discuss the different schools of thought on the interpretation of probability.

13. What is the probability that a leap year, selected at random, will contain 53 Sundays?

14. A candidate is selected for interview for three posts. For the first post there were 3 candidates, for the second 4 and for the third 2. What is the probability that the candidate is selected for at least one post?

Section C

Answer any 2 questions. Each carry 14 marks.

15. Define Regression. Explain different types of regression.

16. Discuss the uses of regression in real life

17. Calculate rank Correlation coefficient between mark assigned to 10 students by judge X and Y.

Sl:No:	1	2	3	4	5	6	7	8	9	10
Mark by Judge X	52	53	42	16	45	41	37	38	25	27
Mark by Judge Y	65	68	43	38	77	48	35	30	25	50

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