Reg No:..... K24FY 1307 (C)
Name :.....

# First Semester FYUGP Management Studies Examination
# NOVEMBER 2024 (2024 Admission onwards)
# KU1DSCBBA102 (BUSINESS STATISTICS)
(DATE OF EXAM: 6-12-2024)

---

Time : 120 min Maximum Marks : 70

**Part A (Answer any 6 questions. Each carries 3 marks)**

1. Define Median 3

2. Define Geometric Mean 3

3. What is Skewness? Explain various types of skewness 3

4. What are short term fluctuations? 3

5. List out the components of Time Series. 3

6. Explain the method of Least Squares 3

7. What is Rank Correlation 3

8. Mention the uses of Correlation 3

**Part B (Answer any 4 questions. Each carries 6 marks)**

9. A person walks 10km at 3km per hour. Again, 6km at 2km per hour and 5km at 4km per hour. Calculate the average speed of the person. 6

10. Compute the Mean Deviation from the mean and also its coefficient for the following data:

| Marks | 10 | 15 | 20 | 25 | 30 |
|---|---|---|---|---|---|
| Students | 8 | 12 | 15 | 10 | 5 |

6

11. Obtain the quartile measure of dispersion and its coefficient for the following data:

| Age | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|---|---|---|---|---|---|---|---|---|
| No.of Persons | 15 | 30 | 53 | 75 | 100 | 110 | 115 | 125 |

6

12. What are the merits and demerits of Freehand curve method? 6

13. What are the merits and demerits of least square method? 6

قل ربّ زدني علما
CENTRAL LIBRARY

14. Calculate the 3-yearly moving averages for the following data:

| **Year** | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Production** | 50 | 54 | 58 | 55 | 53 | 57 | 62 | 63 | 66 | 65 | 63 |

6

**Part C (Answer any 2 question(s). Each carries 14 marks)**

15. What is a frequency table and explain the terms class interval, class frequency and class limit with examples? 14

16. What is a Questionnaire? Explain the precautions that must be taken to draft a questionnaire 14

17. Obtain the equations of the 2 lines of regression for the following data.

| **X** | 43 | 44 | 46 | 40 | 44 | 42 | 45 | 42 | 38 | 40 | 42 | 57 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Y** | 29 | 31 | 19 | 18 | 19 | 27 | 27 | 29 | 41 | 30 | 26 | 10 |

14

SIR SYED COLLEGE
CENTRAL LIBRARY