Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd.u/s 3of UGC Act 1956, Category A by MHRD [now MoE]
Re-accredited with an A++ Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore-641043, Tamil Nadu, India

Continuous Internal Assessment I – February 2025
II Semester

Class : I UG
Major : BBA

Time : 2 Hrs
Max. Marks : 60

24BBAC05 Business Statistics and Logic

Course Outcomes:
CO1: Enhance Knowledge on the concept of statistics and the way of mobilizing data
CO2: Gain knowledge on the various methods of presenting data
CO3: Acquire skills in calculating basic statistical parameters independently
CO4: Assess the way of measuring the inter-relationship among variables
CO5 Interpret the calculated statistical indicators based on the acquired knowledge

6 x 1= 6

Part A
Choose the Correct Answer

1. Statistics are — CO1K1
   a. Individual b. Discrete c. Continuous d. census
2. Source of collecting secondary data is — CO1K2
   a. Discreate data b. sample data c. published data d. census
3. Colors of flowers is an example of — CO1K3
   a. Qualitative variable b. Quantitative Variable
   c. Normal variable d. Abnormal Variable
4. The values of two variables changes in the same direction — CO2K1
   a. Negative correlation b. Positive correlation
   c. Simple correlation d. Liner correlation
5. If the values of two variables move in the opposite direction, — CO2K3
   a. The correlation is said to be linear
   b. The correlation is said to be non-linear
   c. The correlation is said to be positive
   d. The correlation is said to be negative
6. The correlation coefficient is — CO2K1
   a. The square of the coefficient of determination
   b. Can never be negative
   c. The square root of the coefficient of determination.
   d. The same as r square

3 x 6 = 18

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

7.a) Define Statistic and Explain the scope of statistics — CO1 K1

(or)

7.b) Calculate Karl Pearson's coefficient of correlation between the following series by using the direct method (actual mean method). — CO2 K1

Husband's Age	21	22	23	24	25	26	27
Wife's Age	16	15	17	18	19	20	21

8.a)Calculate Karl Pearson coefficient of skewness when mean=20, mode=18, and SD=3. — CO2 K2

(or)

8.b). Distinguish between Primary and secondary data — CO1K3

9.a) Find Karl Pearson's correlation coefficient if N50, $\sum X=75, \sum Y=80, \sum X2=130, \sum Y2=140$ and $\sum XY=128$ — CO2 K3

(or)

9.b) Explain the general rules for preparing diagrams. — CO1 K3

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10.a) Write a note on Simple Liner correlation coefficient with Examples CO2 K3

(or)

10.b). Discuss the Features and limitation statistics in detail. CO1 K1

11.a) calculate Spearman's rank correlation for the following data CO2K3

X	52	63	45	36	72	65	47	25
Y	62	53	51	25	79	43	60	33

(or)

11.b) Explain the Types of Diagrams with example. CO2K4

12.a) Describe any two methods of graphical representation of statistical data.

(or)

12.b)Calculate the mean by step deviation method, calculate the median and mode CO2 K5

Height in cm	160	161	162	163	164	165	166
No. of members	27	146	435	398	210	128	98

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