DATE: 21.03.2023   TIME: 1.30 p.m. -4.30 p.m.

SECTION 2: STRUCTURED ESSAY QUESTIONS (60 MARKS)
Choose <u>04 out of the 06 questions</u> given below and answer using the provided answer sheets.

2.1

a) Explain the difference between correlation and spurious correlation. (5 Marks)

b) Explain the difference between linear correlation and non-linear correlation. (5 Marks)

c) Explain the situations where we use the person correlation test and spearman's rank correlation test. (5 Marks)

2.2

a) Write three assumptions of linear regression analysis. (6 marks)

b) What is the difference between simple linear regression and multiple linear regression? (6 marks)

c) What does the coefficient of determination (R) explain? (3 Marks)

2.3

a) Explain the situation we use the ANOVA test? (5 Marks)

b) Explain the difference between One-way ANOVA and two-way ANOVA. (5 Marks)

c) Write the example for One-way ANOVA and two-way ANOVA. (5 Marks)

2.4
a) Define the term validity. (3 marks)

b) Write three types of validity measures. (6 marks)

c) Explain the difference between internal validity and external validity. (6 marks)

2.5

a) Define the purpose of the factor analysis. (3 Marks)

b) Write three assumptions in factor analysis? (6 Marks)

c) Write three different factoring methods. (6 Marks)

2.6

    a) What is the purpose of using open-ended questions in qualitative research? (3marks)

    b) What is the difference between purposive sampling and convenience sampling in qualitative research? (3marks)

    c) What are some common methods for analysing qualitative data? (3marks)

    d) What is saturation in qualitative research? (3marks)

    e) What is focus group in qualitative research? (3marks)

-------------------------------------END OF QUESTION PAPER-------------------------------------