

2026
(Regular)
Statistics (SEC)
Paper Code : ST-SE-2113

Paper Name : Statistical Analysis Using SPSS

Time : 1½ hours

Full Marks : 30

The figures in the margin indicate full marks for the questions.

1. Answer the following questions as directed : $1 \times 4 = 4$
 - a) In SPSS worksheet, each column represents _____. (Fill in the blank)
 - b) Specify any two uses of SPSS.
 - c) A variable name in SPSS cannot start with a digit. (State True or False)
 - d) Define histogram.
2. Answer the following questions : $2 \times 3 = 6$
 - a) Write the procedure to insert a new variable in an SPSS worksheet.
 - b) State the procedure to display the frequency distribution table of a categorical variable in SPSS.
 - c) What is a bar diagram ? Why bar diagram are useful ?
3. Answer **any two** of the following : $5 \times 2 = 10$
 - a) Describe briefly different chart options available in SPSS.
 - b) Explain the procedure in SPSS to recode into a different variable.

Contd.

- c) Explain briefly the 'data view' and 'variable view' of SPSS.
- d) Discuss the steps involved in constructing a Pie Chart in SPSS.
4. Answer **any one** from the following : 10×1=10
- a) i) Write short notes on the following : 2½+2½=5
 Pivot tables, Analysis of Variance
- ii) In an experiment designed to compare two types of animal Food A and B, the weight gain of the same group of animals was recorded when given Food A and B. Describe an appropriate statistical test procedure in SPSS to determine whether Food A is better than Food B.
- b) i) Mention various steps in drawing a frequency curve (less than and more than) is SPSS. 5
- ii) Data on sex of individuals and blood pressure are given for a sample of 30 individuals. Describe the procedure to use two sample t-test to study whether there is any difference in male and female blood pressure with the help of SPSS. 5

