0501E967

Candidate's Seat No:	
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[Max. Marks: 50

B.Sc. Sem.-1 Examination

DSC-C-111

Statistics

January-2024

Time: 2-00 Hours

Q.1 (a) What are primary data and secondary data? Which of the two is more 5 reliable and why? Explain the following terms (i) Variable (ii) Attributes (iii) Qualitative data (b) 5 the Procedure of OR Explain construction of frequency and cumulative frequency distribution. (a) Explain different methods of collecting primary data. 5 (b) 5 Q.2 (a) Explain the importance of graph in statistics. State the limitations of graphs. Write a short note on two dimensional diagrams. 5 (b) 5 Define (i) Bivariate frequency distribution (ii) Marginal frequency (a) distribution (iii) Conditional frequency distribution. 5 Write a short note on stem and leaf plot. (b) 5 What do you mean by the measures of central tendency? Explain them in Q.3 (a) 5 detail. Show that Sum of deviations about arithmetic mean is zero. (b) 5 What are the properties of a good average? Give examples where arithmetic (a) mean, harmonic mean and geometric mean are appropriate measure for the 5 average. What are partition values? Give details with notations used to denote them. (b) 5 Define standard deviation. Discuss merits and demerits of standard Q.4 (a) 5 deviation Show the relation between raw and central moments. (b) 5 Explain the concept of dispersion and write the characteristics of an ideal 5 (a) measure of dispersion. (b) Explain kurtosis 5 Q.5 Attempt any ten out of twelve. Give one example of Nominal scale. 10 Give one example of Ordinal scale. Give one example of Interval scale. What does a straight line in graph indicates? Which type of frequency distribution is required to draw Histogram? What is the other name of a Pie diagram? State one merits of median of the data. Give formula of harmonic mean? Give empirical relationship between mean, median and mode. Write the formula to calculate coefficient of Quartile Deviation. 10 What is the formula of Percentile? 11 12 What is the formula of skwewness?