UNIVERSITY OF NORTH BENGAL

B.Sc. General Part-III Examination, 2021

STATISTICS

PAPER-VII (OLD SYLLABUS)

Full Marks: 65

ASSIGNMENT

The figures in the margin indicate full marks.
All symbols are of usual significance.

1.   Answer *all* questions: 1×10 = 10

   (a) What is design of experiment?
   (b) Why LSD is called incomplete 3 way layout?
   (c) What is statistical quality control?
   (d) What is producer's risk?
   (e) What is consumer's risk?
   (f) What are the advantages of LSD?
   (g) What is precision of an experiment?
   (h) What is process control?
   (i) What is product control?
   (j) What is tolerance limit?

2.   Answer *all* questions: 6×4 = 24

   (a) Write a short note on rational subgroup.

   (b) What is Completely Randomized Design? Write down the advantages and disadvantages of the design.

   (c) Write a short note on Indian official statistics.

   (d) What is Single sampling and Double sampling inspection plan?

3.   Answer *all* questions: 8×2 = 16

   (a) Write a short note on different components of time series.

   (b) Describe the construction of control charts for mean and fraction defective from appropriate data when standards are given and standards are not given.

4.   Answer *all* questions:

   (a) What do you mean by standardized death rate? Discuss the direct and indirect method of standardization.   2+6

   (b) Give the mathematical model assumed in L.S.D and explain the analysis of variance table used for analyzing the results of such an experimental design.   7

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