

This question paper contains 7 printed pages]

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S. No. of Question Paper : 3124

58

Unique Paper Code : 32375902

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Name of the Paper : Applied Statistics

Name of the Course : Statistics : G.E. for Honours

Semester : IV

Duration : 3 Hours

Maximum Marks : 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt six questions in all.

Q. 1 is compulsory, further select *two* questions from Section I and *three* from Section II.

Use of simple calculator is allowed.

1. (a) Name the characteristic movement of time series with which you will mainly associate the following :

(i) Fall in production of rice due to flood

(ii) An era of recession

(iii) Increase in literacy rate in a developing country

P.T.O.

(b) Fill in the blanks :

(i) When the time series data is found to be increasing/decreasing by equal absolute percentage the ..... method can be used to measure trend.

(ii) Periodic Changes in time series data may be classified as ..... and ..... variations.

(c) Describe assignable causes of variation in Statistical Quality Control.

(d) Name the different test to be satisfied by a good index number ? Which is an ideal index number ?

(e) How do you decide on the type of control chart to control process variability ?

(f) What is CDR ? Discuss its advantages.

(g) What is process control and product control ?

8. (a) What do various columns of a complete life table represent ? Fill in the blanks of the following skeleton life table which are marked with questions marks, where the symbols have their usual meanings.

Age	$l_x$	$d_x$	$q_x$	$p_x$	$L_x$	$T_x$	$e_x^0$
9	93832	1293	?	?	?	3699301	30.42
10	?	1210	—	—	—	—	—

(b) Discuss the following measures :

(i) Age-SDR

(ii) IMR

(iii) GFR.

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