

Roll No. _____

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SIHS 213 B-2K12
B.Sc. IIIrd Semester Degree Examination
Mathematical Statistics
Statistical Quality control and Demographic Methods
Paper - III

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

Statistical tables and graph sheets are supplied on request.

Section - A

I. Answer all the questions.

(15×1=15)

- 1) Assignable causes of variation can be
 - a) By chance
 - b) Identified and isolated
 - c) Cannot be identified
 - d) None
- 2) Variable quality is
 - a) Measurable
 - b) Non measurable
 - c) Both (a) and (b)
 - d) None of these
- 3) Sampling plans are the tools used for
 - a) Process control
 - b) Process control and product control
 - c) Product control
 - d) None of these
- 4) For a process to be out of control
 - a) All the points must be within control limits
 - b) All the points must be out side control limits.
 - c) Some of the points must be out side control limits
 - d) None of the above.

- 5) Generally control charts are based on
 - a) 1σ -limits
 - b) 2σ -limits
 - c) 6σ -limits
 - d) 3σ -limits.
- 6) O.C. curve helps to know the chance of
 - a) Rejecting a lot
 - b) Accepting a lot
 - c) Power of the plan
 - d) None of these
- 7) Which of the following is not a vital event
 - a) Rainfall
 - b) Birth
 - c) Migration
 - d) Sickness.
- 8) The ratio of female population to male population is called
 - a) Birth ratio
 - b) Death ratio
 - c) Sex ratio
 - d) Incidence rate
- 9) Migration may be of
 - a) One type
 - b) Two types
 - c) Three types
 - d) Four types.
- 10) Death ratio is equivalent to
 - a) Mean death
 - b) S.D. of death
 - c) Probability of death
 - d) None of these.

- 11) The child bearing age of women in India is from _____ years to _____ years of age.
- 12) The variation due to _____ causes, cannot be identified and isolated.
- 13) Control charts are designed by _____
- 14) The population at any time can be estimated by the formula _____
- 15) _____ measure of mortality is most suitable for comparing deaths among two populations

Section - B

II. Answer any **five** questions.

(5×5=25)

- 16) Discuss briefly the uses of SQC
- 17) Explain the construction of P-chart by stating the underlying distribution
- 18) Describe LTPD and AOQL
- 19) What are the uses of vital statistics?
- 20) Explain CDR and ASDR with their merits and demerits
- 21) Describe GFR and TFR state their merits.
- 22) What are the applications of life tables?

Section - C

III. Answer any **four** questions

(4×10=40)

- 23) Explain the construction of \bar{X} and R-charts.
- 24) Describe the construction of C-chart. Discuss its applications.
- 25) Describe single sampling plan. Obtain its O.C; ASN and ATI functions
- 26) Explain the two methods of obtaining vital statistics with their merits and demerits .
- 27) Describe G.R.R. and N.R.R with their uses.
- 28) Explain briefly various columns of a life table.

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