# M.Sc. Part—II Semester—III (C.B.C.S. Pattern) Examination GEOINFORMATICS Paper—MGI-304 GEOSTATISTICS

Time: Three Hours] [Maximum Marks: 80

**Note**:—(1) All questions are compulsory and carry equal marks.

- (2) Draw neat sketches wherever necessary.
- 1. Write in brief on the following:—
  - (a) What do you mean by average and standard deviation? Explain it for continuous distribution.
  - (b) Explain concept of correlation with the help of scattered diagram.

#### OR

- (c) Define classical probability. State and prove addition law of probability.
- (d) Discuss diagramatic representation of data. How you can draw Histogram?
- 2. Explain probability mass function and cumulative distribution function of discrete variable.

#### OR

Discuss the concept of random variable expectations and moments.

- 3. Write in brief on the following:—
  - (a) What do you mean by estimation? Give properties of estimator.
  - (b) Explain concept of sampling from normal distribution.

## OR

- (c) Explain unbiasedness of estimator with example.
- (d) How would you select sample from Poisson distribution?
- 4. Write in brief on the following:—
  - (a) Define Hypothesis, alternate hypothesis. Give Example.
  - (b) Explain chi-square test of independence of attributes.

## OR

- (c) Explain the concept of confidence interval. Give example.
- (d) Discuss sequential test of hypothesis.
- 5. Explain concept of variogram with its calculation and interpretation.

# OR

Discuss Linear regression in view of geostatistics.

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