

**B.Sc. (Part-I) (Semester-I) (CBCS (NEP2020)) Examination, March 2024****Balasaheb Desai College, Patan****STATISTICS****Sub. Code: 88183****Descriptive Statistics – I (Paper – I)****Day and Date: Saturday, 30/03/2024****Time: 10:30 a.m. to 12:30 p.m.****Total Marks: 40****Period: 2 Hours****Total Pages: 01**

**Instructions:** i) *All questions are compulsory.*  
 ii) *Figures to the right indicate full marks.*

**1. Choose the most correct alternative: (08)**

- 1) In context of statistical organizations in India ISI means ....
  - a) International Statistical Institute
  - b) Indian Statistical Institute
  - c) Indian Sampling Institute
  - d) none of the these
- 2) Which of the following is **not** a sampling method?
  - a) Simple random sampling
  - b) Stratified random sampling
  - c) Systematic sampling
  - d) Timing sampling
- 3) Which of the following is a example of Secondary data
  - a) Population census
  - b) Interviews
  - c) Reserve bank of India bulletin
  - d) Online Survey
- 4) Which of the following is a discrete variable?
  - a) Weight
  - b) Income
  - c) Age
  - d) No. of children in a family
- 5) Which of the following **is not** measures of central tendency?
  - a) Mean
  - b) Median
  - c) S.D.
  - d) Mode
- 6) If Q1, Q2 and Q3 are first, second and third quartiles then Percentage of observations less than Q1 is ....
  - a) 50 %
  - b) 40 %
  - c) 10 %
  - d) 25 %
- 7) Relative measure of dispersion is...
  - a) always zero
  - b) free from unit
  - c) not free from unit
  - d) none of these
- 8) The characteristic which measures the flatness or peakedness of the curve of the distribution is called as...
  - a) Kurtosis
  - b) Skewness
  - c) Randomness
  - d) None of these

**2. Attempt any Two of the following (16)**

- 1) Explain Scale of measurement i) Nominal Scale ii) Ordinal Scale iii) Interval Scale iv) Ratio Scale
- 2) Derive the formula of Mode for grouped frequency distribution.
- 3) What do you understand by Skewness? Explain the types of Skewness.

**3. Attempt any four of the following: (16)**

- 1) Define Mean, Median and Mode
- 2) Write construction of Less than Ogive curve
- 3) Explain Less than and greater than cumulative frequency
- 4) Explain Simple Random Sampling with Replacement (SRSWR)
- 5) Define i) Range, ii) Quartile Deviation iii) Mean deviation iv) Standard Deviation (S.D.)
- 6) Define Coefficient of Variation (C. V.) and state its utility.

II=====II