

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 07**

**B.Sc. (Graphics and Web Designing) (Sem.-2)**

# FUNDAMENTALS OF STATISTICS

**Subject Code : UGCA-1907**

**M.Code : 77728**

**Date of Examination : 13-12-22**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and students have to attempt any **FOUR** questions.

## SECTION-A

**1. Write briefly :**

- Characteristics of a good average.
- Merits and demerits of Harmonic Mean.
- Utility of diagrammatic Representation.
- Pie Diagrams and Bar diagrams.
- Utility of graphic representation.
- Frequency distribution graphs.
- Ogive curve.
- Difference between Qualitative and Quantitative classification.
- Calculate the median and mode of data ;  
10, 10, 11, 11, 12, 12, 13, 13, 13, 14, 15
- Coefficient of Variation.

## SECTION-B

2. Draw the “less than” and “more than” ogive on the graph paper from the data

<b>Weekly Wages (Rs.)</b>	0-20	20-40	40-60	60-80	80-100
<b>No. of Workers</b>	10	20	40	20	10

3. Prepare Histogram, frequency polygon and frequency curve of following data

<b>Marks :</b>	0-10	10-20	20-30	30-40	40-50	50-60
<b>No. of Students :</b>	5	8	15	11	6	4

4. What are the General rules for constructing a graph? Explain also the different types of graphs.

5. Represent the following data by multiple bar diagram

<b>Years</b>	1991-92	1992-93	1993-94	1994-95
<b>Imports (Crore)</b>	600	700	800	900
<b>Exports (Crores)</b>	500	600	700	800

6. Calculate Mean, Median of following data :

<b>Income :</b>	20-30	30-40	40-50	50-60	60-70	70-80	80-90
<b>No. of persons :</b>	16	36	61	76	87	95	5

7. Calculate standard deviation for following :

<b>Size of item :</b>	6	7	8	9	10	11	12
<b>Frequency :</b>	3	6	9	13	8	5	4

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**