# **Bachelor's Degree Programme** (BDP)

### **ASSIGNMENT 2020-2021**

## **Elective Course in Commerce ECO-07: ELEMENTS OF STATISTICS**

For July 2020 and January 2021 admission cycle



School of Management Studies
Indira Gandhi National Open University
Maidan Garhi, New Delhi -110068



### School of Management Studies Indira Gandhi National Open University

#### ECO – 07: ELEMENTS OF STATISTICS ASSIGNMENT: 2020-21

Dear Students,

As explained in the Programme Guide, you have to do one Tutor Marked Assignment in this Course.

Assignment is given 30% weightage in the final assessment. To be eligible to appear in the Term-end examination, it is compulsory for you to submit the assignment as per the schedule. Before attempting the assignments, you should carefully read the instructions given in the Programme Guide.

This assignment is valid for two admission cycles (July 2020 and January 2021). The validity is given below:

- 1. Those who are enrolled in July 2020, it is valid up to June 2021.
- 2. Those who are enrolled in January 2021, it is valid up to December 2021.

You have to submit the assignment of all the courses to The Coordinator of your Study Centre. For appearing in June Term-End Examination, you must submit assignment to the Coordinator of your study centre latest by 15<sup>th</sup> March. Similarly for appearing in December Term-End Examination, you must submit assignments to the Coordinator of your study centre latest by 15<sup>th</sup> September.

#### TUTOR MARKED ASSIGNMENT

Course Code : ECO-07

Course Title : ELEMENTS OF STATISTICS

Assignment Code : ECO-07/TMA/2020-21

Coverage : ALL BLOCKS

**Maximum Marks: 100** 

#### Attempt all the questions:

Q.1 Compare between mean, median and mode to point out their merits and limitations. (20)

Q.2 Differentiate between dispersion and skewness. If Karl Persons's coefficient of skewness (SKp) = 0.06; mean = 150; variance of distribution= 2500 Find: median; mode & coefficient of variation.

- Q.3 a) Discuss the usefulness of statistics and explain the limitations of statistics. (10)
  - b) What is tabulation? Differentiate between classification and tabulation? (10)
- Q.4 a) Calculate the quartiles  $Q_1$  and  $Q_3$  for wages of the labours given below: (10)

Wages	30-32	32-34	34-36	36-38	38-40	40-42	42-44
Labourers	12	18	16	14	12	8	6

b) The consumption of number of guava and orange on a particular week by a family are given below: (10)

Number Guavas	of	3	5	6	4	3	5	4
Number Oranges	of	1	3	7	9	2	6	2

Which fruit is consistently consumed by the family?

**Q.5** Write short notes on the following:

(4X5)

- a) Law of statistical regularity
- **b)** Non sampling errors
- c) Factors Affecting Choice of Data
- d) Lorenz Curve