

# National Open School

## Senior Secondary Course

### Students' Assignment - 2

(All the entries on the left hand side to be filled by the learner.)

Enrolment No. ....	Marks Obtained .....
Student's Name .....	Date Returned .....
Subject <b>Economics</b>	Tutor's Name .....
Date Submitted .....	Tutor's Sign. ....

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**Tutor's Comments**

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#### Instructions

- Answer all the questions on a separate sheet of paper.
- Get your assignment checked by the subject tutor/teacher at your study centre so that you get positive feedback about your performance.

**Do not send your assignment to National Open School**

Time : 1½ Hrs.

Max. Marks : 50

1. The age of 5 boys are 16, 16, 17, 18 and 19 years. Answer the following : 5 marks
  - (i) The highest age is.....
  - (ii) The (arithmetic) mean is..... years.
  - (iii) The lowest age is.....
  - (iv) If 4 is added to every observation given above the (arithmetic) mean age will be ..... years.
  - (v) If we include one more boy in our observation and his age is 19 years, the mean age will be..... years.
2. The weights of Mohan, Sohan and Ram are 90 kg., 30 kg and 5 kg respectively. Answer the following : 2 marks
  - (a) The weight of Mohan is..... times that of Sohan.
  - (b) The weight of Ram is..... times that of Mohan.
3. Out of a population of 10 lakhs in a city the number of females and males were 4.39 lakhs and 5.61 lakhs respectively. Answer the following : 2 marks
  - (i) The percentage of females in the total population was.....
  - (ii) If the population of the city increases to 11.8 lakhs, the percentage increase in the population was.....%.
4. The price of sugar was Rs. 10.00 per kg. in 1995 and Rs. 12.50 per kg. in 1996. Taking 1995 as the base year, answer the following : 2 marks
  - (i) The price relative for sugar in 1996 was.....
  - (ii) The percentage increase in price of sugar was.....
5. The following table gives income and consumption of a household 'X' in five years.

Year	Income (in Rs.)	Consumption (in Rs.)
1992	5000	5000
1993	5500	5250
1994	6000	5500
1995	6500	5750
1996	7000	6000

According to above data, answer the following :

- (i) Draw the multiple bar chart. 5 marks
- (ii) What is the relationship between income and consumption : positive or negative? 2 marks
- (iii) What is the amount of saving at each level of income ? 2 marks

6. Weekly wages (in Rs.) received by 20 labourers are given below :  
43, 49, 50, 53, 55, 59, 38, 37, 40, 47, 44, 55, 51, 50, 39, 36, 43, 40, 46, 57
- (i) Find their frequency distribution, taking class intervals of equal size, one of them being 40-45. 5 marks
- (ii) Find the arithmetic mean. 5 marks
7. In the Senior Secondary Examination Mridula obtained 90 marks in Economics, 75 marks in English, 50 marks in Hindi, 60 marks in Geography and 62 marks in History. If the weights of these subjects are 5, 4, 1, 2 and 3 respectively. Calculate the weighted mean of the marks obtained. 5 marks
8. The following is the distribution of weight of 50 students in a class :
- |                 |    |    |    |    |    |
|-----------------|----|----|----|----|----|
| Weight (in kg.) | 34 | 36 | 38 | 40 | 42 |
| No. of students | 7  | 10 | 20 | 8  | 5  |
- Calculate the weighted (arithmetic) mean of this group of students. 5 marks
9. From the following data construct price index number for 1995 taking 1990 as base by using Simple Average of Price Relatives Method. 5 marks

Commodities	A	B	C	D
Price in 1990 (in Rs.)	60	45	80	25
Price in 1995 (in Rs.)	75	50	70	40

10. Calculate price index number from the following data by using Laspeyres' method : 5 marks

Commodities	Base year data		Current year data	
	Price per unit (in Rs.)	Quantity (in units)	Price per unit (in Rs.)	Quantity (in units)
A	1	13	1.5	10
B	5	12	6.0	9
C	8	15	7.0	20
D	6	7	9.0	3