ANNEXURE-I

Format-B; Lecture details of guest Faculties

S.No.	Date	Name, Designation & Contact detail of the teacher	Topic of the lecture	Total number of lecture till date
1.	04-05-2020	Dr. Mithilesh Kumar Guest Faculty Mobile No.: 9006435290 Department of Zoology M.L.S. College, Sarisab-Pahi, Madhubani, Bihar.	ARITHMETIC MEAN	54 + 1 = 55

04/05/2020

MLS COLLEGE SARISAB-PAHI, MADHUBANI
(LNMU, Darbhanga)

TOPIC: ARITHMETIC MEAN

SUBJECT: ZOOLOGY

CLASS: B. Sc. Part-II (Honrus)

PAPER: IV, GROUP-B

LECTURE SERIES NO.: 55

By:- Dr. Mithilesh Kumar
Guest Faculty
Department of Zoology
Mobile No: 9006435290

DATE: 04-05-2020

INTRODUCTION:

Average is a general term which describes the central value of a series, around which all other observations are dispersed. Generally, the following are the different forms of average:

1. Arithmetic Mean
2. Median
3. Mode

Average obtained arithmetically is called arithmetic mean. It can be obtained both from ungrouped and grouped data.

CALCULATION OF ARITHMETIC MEAN:

Example; 1:

Haemoglobin percentage (Hb%) of 9 Corona patients of a ward of Darbhanga hospital was obtained as 6mgs, 7mgs, 5mgs, 4mgs, 8mgs, 7mgs, 9mgs, 6mgs and 8mgs. Find out the arithmetic mean of the data.

Calculation:

$$\bar{x} = \frac{\Sigma x}{n}$$

$$\bar{x} = \frac{6+7+5+4+8+7+9+6+8}{9}$$

$$= \frac{60}{9}$$

$$= 6.66 \text{ mg Ans.}$$

Example; 2:

In a field, the number of flowers in each plant is given below. Calculate the arithmetic mean.

No. of Flowers:	0–10	10-20	20-30	30-40	40-50
No. of Plants:	3	13	18	12	5

Solution:

No. of Flowers in each class	No. of plants in each class (f)	Mean (x)	fx
0 – 10	3	5	15
10 – 20	13	15	195
20 – 30	18	25	450
30 – 40	12	35	420
40 – 50	5	45	225
	$\Sigma f = 51$		1305

Here,

$$n = \Sigma f = 51$$

$$\text{Arithmetic Mean} = \frac{\Sigma fx}{n}$$

$$= \frac{1305}{51}$$

$$= 25.59 \text{ Ans.}$$

MERITS AND DEMERITS OF ARITHMETIC MEAN:

Merits:

(i) It covers all the observations.
(ii) It can be calculated easily.

(iii) It does not get affected by the fluctuations of sampling.

(iv) The mean of two or more series of observations can be had from the mean of the component series.

DEMERITS:

(i) By observing data on graph, mean can not be assumed.

(ii) Mean obtained by calculation may not be represented by any series.

Dr. Mithilesh Kumar
04/05/2020.