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RNLKWC/B.Sc.-CBCS/VS/BOT/H/DSE1T/21

2021

BOTANY

[HONOURS]

(CBCS)

(B.Sc. Fifth End Semester Examination-2021)

PAPER-DSE1T

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary*

Biostatistics

Group - A

1. Answer any five of the following:

5x2=10

- a) What is data and datum?
- b) Compare between Census and Sample survey.
- c) What do you mean by zero correlation? How will the graph for zero correlation look like?
- d) What is Weighted mean and Harmonic mean ?
- e) Distinguish between primary and secondary data. .
- f) In case of a positively skewed frequency distribution what will be the relation of mean, median and mode.

(2)

- g) Find the mode of 3, 6, 9, 16, 27, 37, 48.
- h) What is null hypothesis.

Group – B

2. Answer any four of the following: **4x5=20**

- a) What is the significance of chi sq test? Write applications of student’s test. 2.5+2.5
- b) Define Variable? Mention different types of Variable? 1+4
- c) From the field of garden pea plants, a random sampling of 14 plants is made. Their height in cms is as follows :
170, 154, 164, 192, 178, 184, 174, 186, 173, 191, 159, 175, 169, 173 calculate the (i) variance and (ii) the standard Deviation. 1+3
- d) What is the difference between simple regression and multiple regression? Write down the formula of regression coefficient of Y on X axis and regression coefficient of X on Y axis? 2.5+2.5
- e) Explain ‘**Mean – Mode = 3 (Mean – Median)**’. 5
- f) What is degree of freedom ? 5

Group – C

3. Answer any one of the followings: **1x10=10**

- a) Determine the type of correlation for the following data set?

X	10	12	13	12	16	15
Y	40	38	42	45	35	43

(3)

Define positive and negative correlation with proper examples 5+5

- b) What are the steps in testing of a hypothesis ?
Find the Standard Deviation (SD) for the following distribution

X	1	2	3	4	5	6	7
f	10	20	30	35	14	10	2

3+2+5
