2022

Physiology

[HONOURS]

(CBCS)

(B.Sc. Fifth Semester End Examination-2022)

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

1. **Answer any five questions of the following:**   **5x2=10**

a) What is median values?

b) What is population in statistics?

c) Mention the importance of 'P' value in statistics.

d) What is standard error?

e) What is Histogram?

f) Define ranked variables.

g) What are the methods of sampling?

h) Mention the significance of frequency distribution.

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

a) What is mean deviation and standard deviation?

b) Differentiate between parametric and nonparametric statistics.

c) Draw a histogram of following frequency distribution.

Class interval –   151-160   161-165   166-170

Frequency -   5   25   20

d) Compute the mean body weight from the following frequency distribution.

Class interval – 51-53   54-56   57-59   60-62   63-65

Frequency -   4   8   15   25   12

e) What is degree of freedom? Define the term – nonlinear transformation.

f) Describe different sampling method commonly used in statistics.

3. **Answer any one question:**   **1x10 = 10**

a) i) State the differences between normal distribution and students 't' distribution.

ii) Write in brief about Null hypothesis.

b) The body weight (Kg) of 8 adult males and 8 adult females are as follows. Find whether or not the mean weight of male is significantly higher than that of female.

Male –   50, 58, 60, 55, 59, 56, 54, 64

Female -   49, 52, 51, 56, 55, 53, 52, 48