

Total Pages – 3

B.A. RNLK-/DSE-A1(T)/21

2021

Physiology (H)

[Fifth Semester]

Paper - DSE-A1(T)

Full Marks : 40

Time : 2 hours

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.

Group - A

Answer any 5 of the following : **2×5=10**

1. What is central tendency? 2
2. Calculate median from the following data : 2
32, 22, 29, 17, 40, 26, 21, 15
3. What is null hypothesis? 2
4. Mention the application of “Standard Deviation.” 2

(Turn Over)

(2)

5. What is Degree of freedom? 2
6. Distinguish between positive & negative skewness. 2
7. Distinguish between sample & population with examples. 2
8. What is level of significance? 2

Group - B

Answer any 4 of the following : **5×4=20**

1. Distinguish between Bar diagram & Pie diagram. What do you mean by type-1 error inference. 4+1=5
2. What is SE? Compute the SE of the following body weight (kg) of 9 men. 1+4=5
55, 60, 62, 58, 57, 61, 59, 60, 61
3. What do you mean by one tail and two tail t-test? State the assumption for the student t-test. 2+3=5
4. What do you mean by Histogram? Draw the histogram of the following frequency distribution of body weight (kg) in a sample.
Class intervals :
41-45, 46,50, 51-55, 56-60, 61-65, 66-70,71-75 5

(3)

5. Write about the different sampling methods with examples.

5

6. Draw a Pie diagram for the following frequency distribution of blood groups in a sample :

Blood groups : O, A, B, AB

Frequencies : 258, 172, 387, 435

Group -C

Answer any 1 of the following :

10×1=10

1. Find whether or not there is a significant difference between the mean wing length scores (mm) of the following two groups of houseflies sampled from two different habitats.

Wing length (mm)

Group 1 : 4.9, 5.2, 4.7, 5.3, 3.9, 5.4, 4.5, 4.9, 4.8 5.0,
4.2, 4.8

Group-2 : 3.1, 3.7, 3.6, 4.0, 3.3, 3.4, 3.3, 3.2, 3.0, 3.4

2. What do you mean by a variable? Write in brief about different types of variables with examples. 2+8=10

B.A. RNLK-/Physiology(H)/DSE-A1(T)/21