JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
TEST-1 EXAMINATION- 2022
B. Tech (CSE/IT) Semester VI

COURSE CODE: 19BIWCI637

MAX. MARKS: 15

COURSE NAME: Statistics and Exploratory Data Analytics

COURSE CREDITS: 2

MAX. TIME: 1 Hour

Note: All questions are compulsory.

1. Which of the three (i.e., mean, mode and median) provides a reliable measure of central tendency? Explain with reason.

   [3 marks]

2.
   i. You are given a dataset as: 9, 6, 5, 10, 7, 8, 2, 7, 3, 2, 1, 4. Find the value at 33.33 percentile of this dataset.
   ii. Find the 20% trimmed mean for the dataset: 5, 4, 7, 6, 8, 10, 11, 0, 7, 18.
   iii. Find the weighted harmonic mean of the items 4, 7, 12 with weights 1, 2, 1 respectively.

   [1+2+2= 5 marks]

3. The configurations of two laptops L1 and L2 are given as below:
   Laptop L1: Screen width: 15 inch, Processor speed: 2 GHz Resolution: 221 Pixels/inch.
   Lalptop L2: Screen width: 14 inch, Processor speed: 2.4 GHz Resolution: 250 Pixels/inch.
   How will you choose one of the above computers?

   [2.5 marks]

4. In first test, a typist types 400 words in 50 minutes, in second test he types the same words (400) in 40 minutes and in third test he takes 30 minutes to type the 400 words. Calculate his average typing speed.

   [2.5 marks]

5. Identify the discrete, continuous, nominal, and ordinal variables from the following:

   [2 marks]

   a. Person_age
   b. Person_gender
   c. Person_height
   d. Person_blood_group
   e. Is_person_feeling_happy
   f. Total_number_of_children
   g. Is_person_a_smoker
   h. Social_class