JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

B.Tech-VI Semester (CSE/IT)

COURSE CODE (CREDITS): 19B1WCI637 (2) MAX. MARKS: 15

COURSE NAME: STATISTICS AND EXPLORATORY DATA ANALYTICS

COURSE INSTRUCTOR: Dr. Amol Vasudeva MAX. TIME: 1 Hour

Note: *(a) All questions are compulsory.*
(b) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems
(c) Use of calculator is not allowed

Q No	Question	CO	Marks
Q1	You are given a dataset as: 9, 6, 5, 10, 7, 8, 2, 7, 3, 2, 1, 4. i. 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	**1+2+2=5**
Q2	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?	1	**2.5**
Q3	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.	1	**2.5**
Q4	Explain why data visualization is considered a crucial step in exploratory data analysis?	2	**2**
Q5	Describe how different visualization techniques can help identify outliers in a dataset. Which visualization do you find most effective and why?	2	**3**

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