

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2024

BBA-III Semester

COURSE CODE(CREDITS): 23BB1HS311 (4)

MAX. MARKS: 15

COURSE NAME: Statistics for Business Decisions

COURSE INSTRUCTORS: Prof Amit Srivastava

MAX. TIME: 1 Hour

Note: (a) All questions are compulsory.

(b) Marks are indicated against each question in square brackets.

(c) The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems

1. Write short notes (max 50 words) [1x4=4] (CO1)
- Inferential statistics
 - Limitations of Statistics
 - Census and its benefits
 - Categorical variables

2. Following is the observations of weight and heights of employees of an organization:

Height (inch)	62	66	58	54	59	63	67	69	53	71	63	64	58	72
Weight (kg)	58	62	55	56	63	78	76	85	48	86	80	68	66	91

- Develop a cross tabulation (using Sturge's rule). [1.5x2=3] (CO1)
 - Is there any relationship between height and weight?
3. Following is the incomplete frequency distribution of range marks obtained and number of students: [2+3+1=6] (CO3)

Marks obtained	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No of students	15	25	35	45	60	?	98	?	50	20

- The median of the distribution is 60.61.
- Calculate the missing frequencies.
 - Calculate mean and mode of the distribution.
 - Comment on the distribution pattern of the data also.
4. Geometric mean of 6 numbers is found to be 17.0483. The number 42 is wrongly written as 22. Rectify the error and report the correct GM. [2] (CO3)