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Daffodil International University

Class Test-01

Student ID:

Program: B.Sc. in CSE

Marks obtained: 15

Course Code: STA101

Semester: Fall 2025

Section: **65_C**

Date: 14.10.2025

Course Title: Statistics and Probability

Time: 30 minutes

Answer all the questions

Marks

1) a) The _____ is the value that occurs most frequently in a dataset, while the _____ represents the arithmetic average of all values.

b) The interval scale allows for meaningful differences between values but lacks a _____.

c) **Choose the correct answer and provide tick mark (✔) in the box for questions (c) and (d).**

d) In a **Histogram**, the frequency of each class is represented by the _____. 1×7

(A) Height of the rectangle (B) Area of the rectangle (C) Class limits (D) Width of the rectangle (E) Cumulative frequency

e) In a frequency polygon, points are plotted at the _____.

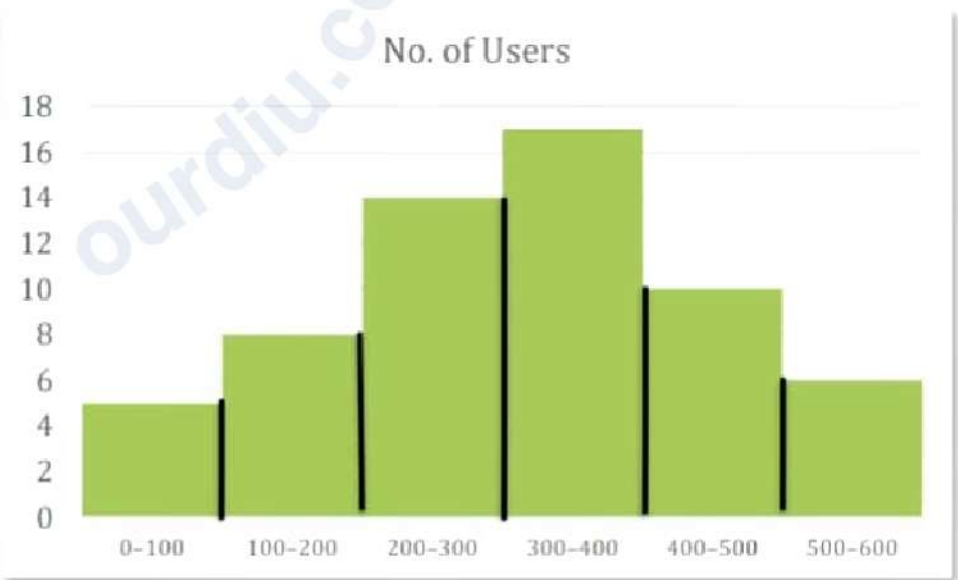
(A) Class boundaries (B) Class midpoints (C) Cumulative frequencies (D) Class intervals (E) Midpoints for cumulative frequency.

f) Temperature measured in "Kelvin" is on _____ scale, and its corresponding variable type is _____.

g) Calendar year is measured on _____ scale, and its corresponding variable type is _____.

h) Why is the median sometimes preferred over the mean when describing a dataset?

2) The **Histogram** shows the data used by 60 students in a programming test:



a) Construct a **frequency distribution table** from the following graph. [3]

b) Draw **Ogive Curve(s)**. Also determine the value of the appropriate measure of central tendency from the graph. [4]

c) From the **ogive curve(s),** find the number of users who used (i) **less than 350 MB** of data (ii) more than 450 MB of data marks. [1]

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65_C

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Class Test No. :..... Signature of the Course Teacher :.....

(1) a. mode, Mean/arithmatic mean

b. true zero/Natural zero/absolute zero

d. (B) Area of rectangle

e. class midpoints

f. ratio, Quantitative, ratio

g. interval, Quantitative, discrete

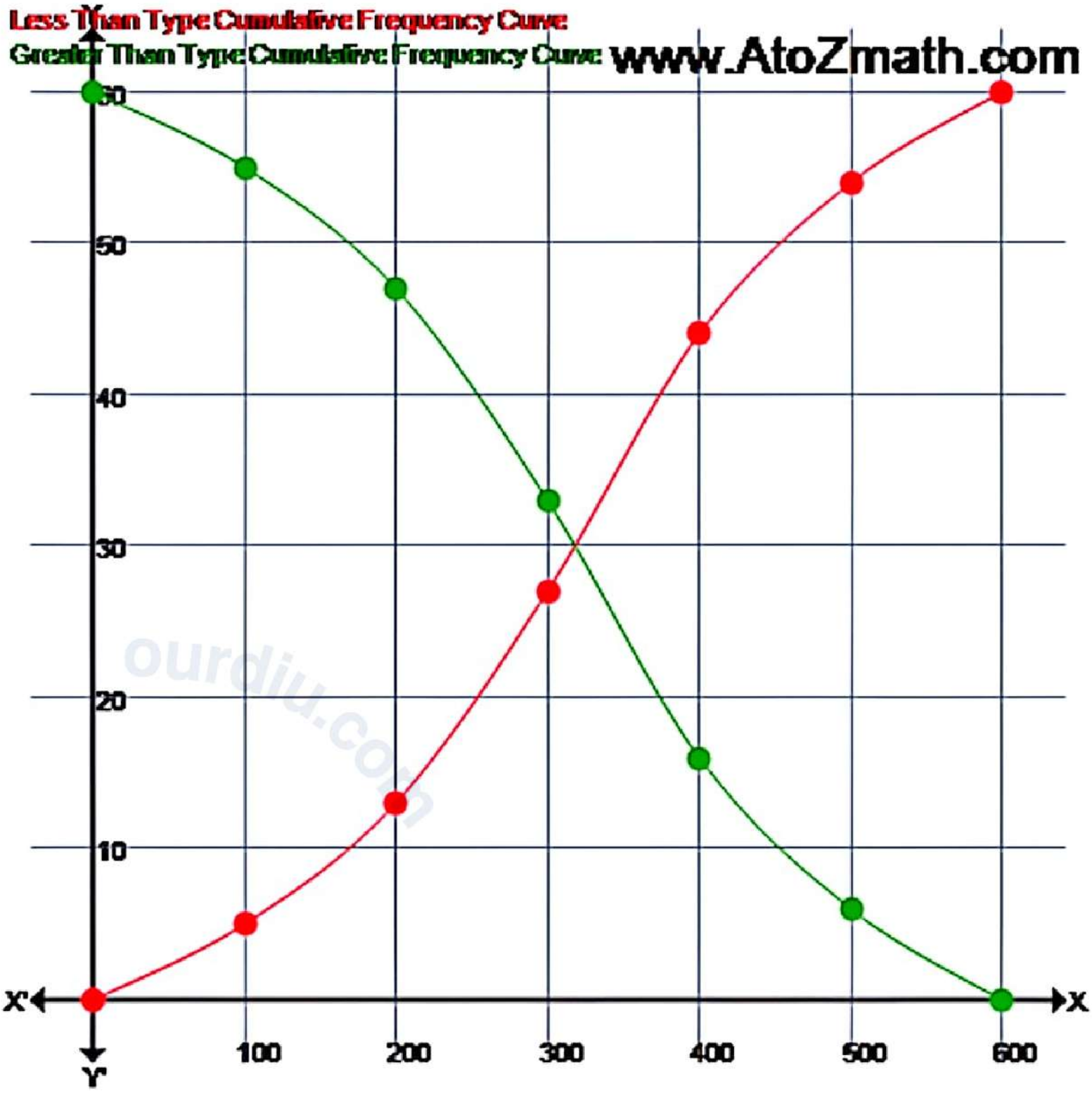
h. Because it is not affected by extreme values/outliers.

(2) (a)

class interval	frequency	Less than cumulative frequency	More than cumulative frequency
0-100	5	5	60
100-200	8	13	55
200-300	14	27	47
300-400	17	44	33
400-500	10	54	16
500-600	6	60	6

N=60

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2 (b) ogive curve: (see in the figure in the above)

median is the appropriate measure of central tendency.

median = ~~320~~ 318 [Exact = 317.65]

c) no. of users less than 350 MB = 35

" " " more " 450 MB = 11