

# GURUDAS COLLEGE

STATISTICS [General] Paper-CC1/GE1

B.Sc. 1st Semester, 2020

Internal Assessment Exam

F.M=10

Time-30 minutes

Answer any 10 questions. (1x10)

1. Select the correct option:

The main component of a table showing numerical data is

(a) stub (b) caption (c) title (d) body.

2. A semi-logarithmic chart is actually a

(a) bar chart (b) ratio chart (c) pie chart (d) none of these.

3. Write True or False:

Secondary data are not original.

4. What is a discrete variable?

5. What is frequency density?

6. The correlation coefficient between two variables  $x$  and  $y$  is 0.28, their covariance is 7.6. If variance of  $x$  is 9, then find s.d of  $y$ .

7. Define correlation coefficient.

8. What is a scatter diagram?

9. What do you know about coefficient of variation?

10. The arithmetic mean of a variable  $y$  is 35. Find the mean of the variable  $3y - 20$ .

11. Write True/False: Median is not always rigidly defined.

12. Write True/False: Mean deviation about mean is always positive.

13. If  $y = 3 - 2x$  and the range of  $x$  is 6, find the range of  $y$ .

14. State one property of geometric mean.

15. 7. If the equation  $y = ae^{bx}$  can be written in linear form  $Y=A + BX$ , what are  $Y$ ,  $X$ ,  $A$ ,  $B$ ?

a)  $Y = \log y$ ,  $A = \log a$ ,  $B=b$  and  $X=x$

b)  $Y = y$ ,  $A = a$ ,  $B=b$  and  $X=x$

c)  $Y = y$ ,  $A = a$ ,  $B=\log b$  and  $X=\log x$