# MA RURAL DEVELOPMENT <br> THIRD SEMESTER <br> STATISTICAL ANALYSIS \& COMPUTER APPLICATION <br> MRD-302 <br> (Use separate answer scripts for Objective \& Descriptive) 

Duration: 3 hrs.
Full Marks: 70

## (PART-A: Objective)

Time: 20 min .

Marks: 20
$1 \times 20=20$

Choose the correct answer from the following:

1. A set of value when arranged in the ascending or descending order of magnitude to find out the middle most value is:
a. Mean
b. Median
c. Mode
d. Standard Deviation
2. The difference between highest value and the lowest value is known as:
a. Standard deviation
b. Range
c. Weighted mean
d. Arithmetic mean
3. The statistical tool with the help of which we are in a position to estimate the unknown values of one variable from the known values of another variable is called:
a. Correlation
b. Regression
c. Standard deviation
d. Dispersion
4. Which of the following statistics is not a measure of central tendency?
a. Arithmetic mean
b. Mode
c. Median
d. Q3
5. Classification is the process of arranging data in:
a. Attributes.
b. Different rows and columns.
c. Grouping of related facts in different classes.
d.None of these.
6. Who defined statistics as the science of estimates and probabilities?
a. A L Boddington
b. Croxton and Cowden
c. Horace Secrit
d. Pannerselvan
7. Census conducted by Govt of India is an example of $\qquad$ data.
a. Primary
b. Secondary
c. Both a \& b
d. None of these
8. To draw a histogram frequency distribution should be $\qquad$
a. Discrete
b. Continum
c. Both
d. None of these
9. Tabulation is a process of data representation in............... method.
a. Diagrammatic
b. Graphical
c. Tabular
d. None of these
(PART-B:Descriptive
10. Simple Bar diagram is drawn for.................. characteristics.
a. Single
b. Multiple
c. Both
d. None
11. Chi square test is a $\qquad$ hypothesis testing.
a. Non parametric
b. Parametric
c. Logit
d. None of these
12. Which of the following test is used for comparing the mean of a sample to some hypothesized mean for the population?
a. $z$ test
b. $t$ test
c. x2 test
d. All of them
13. If there are ' $n$ ' observations the degrees of freedom is calculated as:
a. $n-1$
b. $\mathrm{n}+1$
c. $(\mathrm{n}-1)(\mathrm{n}+1)$
d. None of these
14. Method of Moving averages is related to:
a. Regression
b. Correlation
c. T test
d. Time series
15. Which of the following diagram tells us the direction in which the observed values are related?
a. Scatter diagram
b. Pie chart
c. Bar chart
d. None of these
16. The value of Karl pearson's Correlation Coefficient lies between. $\qquad$
a. 0 and 1
b. -1 and 0
c. -1 and 1
d. None of these
17. When constructing a frequency distribution, classes should be arranged in such a way that they are of. $\qquad$ width.
a. Equal
b. Not equal
c. Both
d. None of these
18. Data arranged according to time of occurrence is known as...............................
a. Attribute
b. Series
c. Chronologic
d. Both $b$ and $c$
19. Statistics deals with. $\qquad$
a. Qualitative
b. Quantitative
c. Both $a$ and $b$
d. None of these
20. A distribution that is more peaked than normal is called...............
a. Platykurtic
b. Mesokurtic
c. Leptokurtic
d. All of these

## [Answer question no. 1 \& any four (4) from the rest]

1. Define Statistics as defined by Prof Horace Secrit. State the characteristics of statistics.
2. Calculate the mean and median from the following data: Marks No. of students
10-20 6
20-30 10
30-40 15
3. Compute the standard deviation ( $\sigma$ ) from the series:
$72,54,87,78,98,64$
4. Following are the attendance of students in a class:

Days of Week Monday Tuesday Wednesday Thursday Friday $\begin{array}{llllll}\text { No of absentees } & 66 & 57 & 54 & 48 & 75\end{array}$
Test at .050 level of significance whether absenteeism is uniformly distributed over the week or not.
5. Write notes on: Mean, Median and Mode as measures of Central Tendency.
6. Compute the Rank Co-relation co-efficient ( r ) from the series:
$X=82,81,80,79,78$
$Y=22,35,75,63,48$
7. Enumerate the Time series Analysis.
8. Calculate Coefficient of variation:

