REV-00 MRD/28/33

#### MA RURAL DEVELOPMENT THIRD SEMESTER

### STATISTICAL ANALYSIS & COMPUTER APPLICATION

**MRD-302** 

(Use separate answer scripts for Objective & Descriptive)

Duration: 3 hrs.

## (PART-A: Objective)

Marks: 20

 $1 \times 20 = 20$ 

Full Marks: 70

Time: 20 min.

## 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 d. Standard Deviation
- 2. The difference between highest value and the lowest value is known as:
  - a. Standard deviationb. Rangec. Weighted meand. 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>b.</b> Mode	
c. Median	<b>d.</b> 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 Boddingtonb. Croxton and Cowdenc. Horace Secritd. Pannerselvan
- 7. Census conducted by Govt of India is an example of..... data.a. Primaryb. Secondary
  - c. Both a & b d. None of these

8. To draw a histogram frequency distribution should be.....
a. Discrete
b. Continum
c. Both
d. None of these

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9. Tabulation is a process of	data representation in method.	(DUDT D. Description)
a. Diagrammatic	b. Graphical	( <u>PARI-B:Descriptive</u> )
	d. None of mese	Time: 2 hrs. 40min.
a. Single c. Both	<b>b.</b> Multiple <b>d.</b> None	[Answer question no.1 & any four (4) from the rest ]
<ul><li>11. Chi square test is a</li><li>a. Non parametric</li><li>c. Logit</li></ul>	hypothesis testing. b. Parametric d. None of these	<ol> <li>Define Statistics as defined by Prof Horace Secrit. State the characteristics of statistics.</li> <li>Calculate the mean and median from the following data:</li> </ol>
<ul> <li>12. Which of the following techypothesized mean for th</li> <li>a. z test</li> <li>c. x2 test</li> </ul>	st is used for comparing the mean of a sample to some e population? b. t test d. All of them	Marks         No. of students           10-20         6           20-30         10           30-40         15           40-50         8
13. If there are 'n' observation a. n-1	ns the degrees of freedom is calculated as: <b>b.</b> n+1	<b>3.</b> Compute the standard deviation (σ) from the series: 72, 54, 87, 78, 98, 64
<ul><li>c. (n-1)( n+1)</li><li>14. Method of Moving average</li><li>a. Regression</li></ul>	d. None of these ges is related to: b. Correlation	<ul> <li>Following are the attendance of students in a class: Days of Week Monday Tuesday Wednesday Thursday Friday No of absentees 66 57 54 48 75</li> <li>Test at 050 level of significance whether absenteeism is uniformly</li> </ul>
<ul><li>c. 1 test</li><li>15. Which of the following divalues are related?</li></ul>	d. Time series agram tells us the direction in which the observed	distributed over the week or not. 5. Write notes on: Mean, Median and Mode as measures of Central
a. Scatter diagram c. Bar chart	b. Pie chart d. None of these	<ul> <li>Tendency.</li> <li>6. Compute the Rank Co-relation co-efficient (r) from the series:</li> <li>X = 82, 81, 80, 79, 78</li> </ul>
<ul><li>16. The value of Karl pearson</li><li>a. 0 and 1</li><li>c1 and 1</li></ul>	's Correlation Coefficient lies between b1 and 0 d. None of these	Y = 22, 35, 75, 63, 48 7. Enumerate the Time series Analysis.
17. When constructing a freq a way that they are of	uency distribution, classes should be arranged in such	8. Calculate Coefficient of variation: 59, 70, 75,82
a. Equal c. Both	<b>b.</b> Not equal <b>d.</b> None of these	==***==
<ul><li>18. Data arranged according</li><li>a. Attribute</li><li>c. Chronologic</li></ul>	to time of occurrence is known as b. Series d. Both b and c	
<ul><li>19. Statistics deals with</li><li>a. Qualitative</li><li>c. Both a and b</li></ul>	<b>b.</b> Quantitative <b>d.</b> None of these	
<ul><li>20. A distribution that is mor</li><li>a. Platykurtic</li><li>c. Leptokurtic</li></ul>	e peaked than normal is called b. Mesokurtic d. All of these	

Marks: 50

3+7=10