REV-00 MRD/24/30

MA RURAL DEVELOPMENT **Third Semester** STATISTICAL ANALYSIS & COMPUTER APPLICATION (MRD - 12)

Duration: 3Hrs.

Full Marks: 70

Marks: 50

Part-A (Objective) =20 Part-B (Descriptive) =50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Answer the following questions:

- 1. Define MIS. What are the components of an Information system? Discuss the importance of IT in Rural Development. (3+3+4=10)
- 2. What are the features of statistics? State the limitations of statistics. (5+5=10)
- 3. Following are the ages of participants attended SHG workshop.

5 6	3	7	5	6	9	11	13	12	5	6	
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What is the mode of data set?

What is the mean of data set?

- 4. A random sample of 10 bags of fertilizers are found to have 45, 49, 50, 49, 44, 52, 48, 45, 46, 45. Test at 5% level of significance whether the average packing weight can be taken as 50 kg? (10)
- 5. Calculate Karl pearson Coefficient of correlation from the following data: (10)

Year	1985	1986	1987	1988	1989	1990	1991	1992
Index of	100	102	104	107	105	112	103	99
Production								
Number of	15	12	13	11	12	12	19	26
unemployed			1.1.1.1					

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(5+5=10)

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MA RURAL DEVELOPMENT Third Semester STATISTICAL ANALYSIS & COMPUTER APPLICATION (MRD - 12)

Duration: 20 minutes

(PART A- Objective Type)

I. Answer the following:

- 1. The coefficient of variation measures variability in a data relative to the size of the arithmetic mean. **True/False**
- 2. Which of the following statistics is not a measure of central tendency?
 a. Arithmetic mean
 b. Median
 c. Mode
 d. Range
- 3. Which of the following statements about the median is not true? a. It is more affected by extreme values than the arithmetic mean.
 - b. It is a measure of Central tendency.
 - c. It is equal to Q2.
 - d. It is equal to the mode in bell-shaped normal distribution.
- 4. If a set of data is perfectly symmetrical, the arithmetic mean must be identical to the median. **True/False**
- 5. The quantitative characteristic that varies from unit to unit is calleda. Datab. Variablec. Hypothesisd. Dispersion
- 6. Data arranged according to time of occurrence is known as _____ (Attribute/Series)
- 7. Tabulation presents the data in a minimum space. True/False
- 8. Statistics deals with qualitative data. True/False
- 9. When constructing a frequency distribution, classes should be arranged in such a way that they are of equal width. **True/False**
- 10.t distribution is ______ probability distribution. (Continuous/Discrete)

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1×20=20

Marks - 20

	11.If we observe or record nur points or intervals of time,a. Regressionc. Time Series	nerical featur the set of obs b. Correlatio d. Central te	res of an individual or a population servations forms a: on endency	for different				
	12.Data +	_+ purpose =	= Information					
	13.Understanding + Communi	.Understanding + Communication =						
	14.TPS stands for a. Transaction Processing S c. Tele Processing Systems	System	b. Transaction Process and Systemd. Tele Process and Systems	15				
	5. If the Calculated value of t test is higher than tabulated value, H_0 is rejected. True/False							
	 16. Which of the following test hypothesized mean for the a. z test c. x² test 	comparing the mean of a sample to see	some					
	17.Degree of freedom is calcu a. n-1	lated as: b. n+1 d. None of t	hese					
	18. The value of Karl Pearson'	The value of Karl Pearson's Correlation Coefficient lies between -1 and 1. True/False						
	19.Which of the following dia related? a. Scatter diagram	gram tells us b. Pie chart	the direction in which the observed	l values are				
1	c. Bar chart	d. None of t	nese					
-	a. Regression c. T test	b. Correlation d. Time seri	o: on ies					

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