REV-00 MRD/23/28

MA RURAL DEVELOPMENT THIRD SEMESTER STATISTICAL ANALYSIS & COMPUTER APPLICATION MRD-302

Duration: 3 Hrs.

Marks: 70

Marks: 50

(10)

(10)

(10)

(10)

(10)

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

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

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

- "Decision making process becomes more efficient with the help of statistics". (10) In this context explain the characteristics of statistics.
- Distinguish between: (a) Primary and Secondary Data(b) Qualitative and Quantitative Data
- 3. In an office there are 84 employees. The distribution of their salaries are as (10) follows:

Salary (RS)	2430	2590	2870	3390	4720	5160
Employ	4	28	31	16	3	2
ees						

Find the mean salary of the employees.

- 4. Illustrate the definitions of statistics as propounded by the statistician.
- 5. Find out the percentage and interpret the data:

No of families	No of children
1	15
2	20
3	22
4	16

6. A random sample of 10 bags of fertilizer are found to have the following weight (kg):

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.

- Out of 100 people surveyed 600 belong to urban area and rest to rural areas. (10) Among 500 who visited other states 400 belong to urban area. Test at 5% level of significance whether area and visiting other states are dependent.
- 8. State the relationship between Mean, Median and Mode.

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[PART-A : Objective]

Choose the correct answer from the following:

- 1. The quantitative characteristic that varies from unit to unit is called:
 - a. Data
 - b. Hypothesis
 - c. Variable
 - d. Dispersion
- 2. Which of the following statistics is not a measure of central tendency?
 - a. Arithmetic Mean
 - b. Median
 - c. Mode
 - d. Standard Deviation
- 3. Which of the following presents the data in a minimum space?
 - a. Tabulation
 - **b.** Interpretation
 - c. Sampling
 - d. Correlation
- Statistics deals with: 4.
 - **Qualitative** Data a.
 - **Ouantitative** Data b.
 - Both (a) and (b) c.
 - d. None of these
- 5. If the calculated value of t test is higher than tabulated value:
 - a. H₀ is rejected
 - **b.** H_0 is accepted
 - c. Both (a) and (b)
 - d. None of these
- Which of the following test is used for comparing the mean of a sample to some 6. hypothesized mean for the population?
 - b. T test a. Z test
 - d. All of these c. X² test

- 7. Degree of freedom is calculated as:
 - a. n-1
 - b. N+1
 - (n-1)(n+1)c.
 - d. None of these
- 8. Which of the following diagram tells us the direction in which the observed values are related?
 - a. Scatter Diagram
 - b. Pie Diagram
 - c. Bar Diagram
 - d. None of these
- 9. The value of Karl pearson's Correlation Coefficient lies between:
 - -1 to +1 a.
 - **b.** 0 to +1
 - **c.** -1 to 2
 - **d.** None of these
- 10. Method of Moving averages is related to:
 - a. Regression
 - Correlation b.
 - c. Time series
 - d. T test
- **11.** When constructing a frequency distribution, classes should be arranged in such a way that they are of:
 - a. Equal width
 - b. Unequal width
 - c. Half width
 - d. Quarter width
- 12. If a set of data is perfectly symmetrical, the arithmetic mean must be identical to the:
 - a. Weighted Mean
 - **b.** Mode
 - Median c.
 - d. Quartile
- 13. In inferential statistics we study:
 - a. The methods to make decisions about population based on sample result.
 - How to make decision about mean, median and mode. b.
 - How a sample is obtained from a population. c.
 - d. None of the above.
- 14. Statistic is a numerical quantity calculated from:
 - a. Population **b.** Sample
 - c. Data d. Observation

1×20=20

2017/12

- 15. Which one is not the measure of dispersion?
 - a. Range
 - b. Percentile
 - c. Quartile Range
 - d. Variance
- 16. Data in the population census report is:
 - a. Primary Data
 - b. Secondary Data
 - c. Grouped Data
 - d. Ungrouped Data
- 17. Which branch of statistics deals with the techniques that are used to organize, summarize ^{*}and present the data is:

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- a. Advanced Statistics
- b. Inferential Statistics
- c. Probability Statistics
- d. Descriptive Statistics
- 18. Which of these represent qualitative data?
 - a. Height of a student
 - b. Liking or disliking of 500 persons
 - c. Income
 - d. Yield of wheat
- 19. The data which has already been collected by someone else is called:
 - a. Secondary Data
 - **b.** Primary Data
 - c. Array Data
 - d. Raw Data
- 20. Questionnaire survey method is used to collect:
 - a. Secondary Data
 - b. Primary Data
 - c. Both (a) and (b)
 - d. None of these

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Creeding Exercise	[PART (A) : OBJECTIVE] Serial no. of the main Answer she Duration : 20 Minutes		
Course			
Semeste	er :Roll No :		
Enrollm	ent No : Course code :		
Session	: 2017-18 Date :		
****	Instructions / Guidelines		
>	The paper contains twenty (20) / ten (10) questions.		
~	Students shall tick (✓) the correct answer.		
>	No marks shall be given for overwrite / erasing.		
>	Students have to submit the Objective Part (Part-A) to the invigilator just after		

Full Marks	Marks Obtained	
20		