MSW

M 26286

Name :

Third Semester M.S.W. Degree (Reg./Sup.) Examination, December 2014 Paper – XVI : STATISTICS

Time: 3 Hours

Max. Marks : 80

PART-I and to old a conjetes vited

Answer any six questions. Each question carries 3 marks. Answer to a question is limited to 100 words. Write short notes :

1. Statistical hypothesis

- 2. Range
- 3. Probability
- 4. Degrees of freedom
- 5. Standard error
- 6. Mode
- 7. Mutually exclusive events
- 8. Level of significance
- 9. Dispersion.

PART-II

Answer any five questions. Each question carries 6 marks. Answer to a question is limited to 200 words.

- 10. State and prove the Multiplication Theorem of probability. How is the result modified when the events are independent?
- 11. Describe Normal Distribution and discuss its properties. Why is it important in statistical theory ? endet to secure tables.

- 12. Describe t-test. What are the assumptions for t-test ?
- 13. What is χ^2 test ? What are the uses of χ^2 test ?
- 14. What are the objectives of diagrammatic presentation ? Name the different types of diagrammatic representation of data.
- 15. Explain testing of hypothesis.
- 16. Calculate the median for the data given below :

Daily Earnings	No. of Persons	
(in Rs.)		
50-53	3	
53-56	8	
56-59	14	
59-62	30	
62-65	36	
65-68	28	
68-71	16	
71-74	10	
74-77	5	

17. Calculate the Mean Deviation from Mean for the following data :

Class Interval	2-4	4-6	6-8	8-10
Frequency	3	4	2	1

PART – III

Answer any two questions. Each question carries equal marks. Answer to a question is limited to 900 words.

- 18. What do you mean by Correlation Analysis ? Describe the different types of correlation with suitable examples. Also enumerate the methods of studying correction.
- 19. What do you mean by tabulation ? Write an essay describing the objectives of tabulation, different components of a table, requisites of an ideal table and the various types of tables.

20. Find the rank correlation coefficient between poverty and overcrowding from the table below :

Town	No. per 200 households below minimum standard of living	Overcrowding 36	
A	17		
В	13	46	
С	15	35	
D	16	24	
E	6	12	
F	11	18	
G	14	27	
H	9	22	
1	7	2	
J	12	8	

 $(16 \times 2 = 32)$

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- 10: State and prove the Multiclication Theorem of probability. How is the result modified when the events are independent?
- C Describe Variational Cristidou lon and circled life progenites. Why is it important in strategical theory ?