

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Sc. Honours (Agriculture) (Sem.-3)

STATISTICAL METHODS

Subject Code : BSAG-308-19

M.Code : 78663

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly :

- 1) Statistics
- 2) Mean
- 3) Standard Deviation
- 4) Trial and Event
- 5) Binomial Distribution
- 6) Correlation Coefficient
- 7) Dependent Variable
- 8) Hypothesis
- 9) T test
- 10) Random Sampling

SECTION-B

- 11) What is Statistics? How is it applied for decision making in Agriculture? Explain with suitable examples.
- 12) Find out the Mean Cost of Production from the following data:

Cost of Production	Number of Units
More than or equal to Rs. 2	188
More than or equal to Rs. 6	187
More than or equal to Rs. 10	178
More than or equal to Rs. 14	157
More than or equal to Rs. 18	110
More than or equal to Rs. 22	58
More than or equal to Rs. 26	22
More than or equal to Rs. 30	3

- 13) A bag contains 4 white, 5 Red and 6 Green Balls. These balls are drawn at random. What is the chance that the one is white, One is Red and One is Green?
- 14) What are the main objectives of Sampling? Compare and Contrast the merits and drawbacks of sampling and census studies.
- 15) What do you mean by Hypothesis Testing? Explain the process of Testing Hypothesis in detail by using suitable examples.

SECTION-C

- 16) Fit out the Regression equation of Consumption on Income :

Income (Rs.)	100	200	300	400	500	600	700
Consumption (Rs.)	80	185	290	285	380	490	550

- 17) In a survey of 200 boys of which 75 were intelligent, 40 had skilled fathers, while 85 of the unintelligent boys had unskilled fathers. Do these figures support the hypothesis that skilled fathers have intelligent boys? (Value of Chi Square for 1 d.f. is 3.841)
- 18) Discuss the Utility and Limitations of graphic method of presenting Statistical Data.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.