P P SAVANI UNIVERSITY

Second Semester of B.Sc. (Hons.) Agriculture End Semester Examination
December - 2022

SGAG 1060-Statistical Methods

14.12.2022, Wednesday

Instruction:

Time: 10:00 a.m. to 12:00 a.m.

Maximum Marks: 50

1. Draw a neat and labeled diagram whenever it is required. 2. Start new questions from new page. Q.1 Multiple choice questions (01mark each) (15) CO BTL Statistics is a science of estimate and probability definition given by... 1.1 1 a. Boddington c. R. A. Fisher b. Boggington d. R. M. Fisher 1.2 The study of the population always on the basis of.... 1 1 a. Individual c. Variability b. Sample d. Diagram 1.3 In which, data are classified and tabulated according to three 2 characteristics? a. Simple c. Three way b. Two way d. Manifold **1.4** Correlation coefficient lies between - 1 to + 1 2 3 a. 0 to + 1c. -2 to + 2d. $-\infty$ and $+\infty$ b. -1 to + 11.5 Which method of the frequency distribution have example of class range 2 3 100-199, 200-299.....? a. Exclusive Method c. Both A and B b. Inclusive Method d. None of the above 1.6 The most common and ideal measure of central tendency is... 1 a. Arithmetic Mean c. Mode b. Median d. Modal In which experiment design layout of the design is easy? 1 a. LSD c. CRD b. RBD d. FRBD 1.8 When the principles of statistics are applied on living thing or organisms 2 known as... a. Biography c. Bibliography b. Biology d. Biometry 1.9 Statistical model of RBD is.... 2 a. $Yij = \mu + \tau \iota + \beta j + \epsilon ij$ c. $Yij = \mu + \epsilon ij$ b. $Yij = \mu + \tau i + \epsilon ij$ d. $Yij = \tau i + \epsilon ij$

rent m	1 1 2 2	1 2
	2	1
	2	1
	2	1
	2	
	2	
	2	
n		2
n /		2
/		2
	2	
	2	
	4	2
	1	1
(06)		
	1	1
	1	1
	1	1
	1	1
	1	1
	-	1
	2	1
	2	1
(05)	2	1
(05)	2	2
(05)		
(05)	2	2
(05)	2 2	2 2
	(06)	1 1 1

Q.4	Short notes (Attempt any six- 02 marks each)	(12)		
4.1	Explain difference between frequency polygon and frequency curve.		2	4
4.2	Give the difference between Correlation and Regression.		2	4
4.3	How the error can be reduced?		2	1
4.4	List out the types of classification		2	1
4.5	Give the functions of replication		2	1
4.6	Differentiate the RBD and LSD		2	4
4.7	Limitation of statistics in agriculture		2	1
4.8	List out objectives of the central tendency		2	1
Q.5	Answer the following questions in detail (Attempt any three- 04	(12)		
	marks each)	,		
5.1	What is statistics? Explain its' aim and importance in agriculture.		1	1
5.2	Write down the any five full form related to the statistics.		1	1
5.3	Write down the advantage and disadvantage of RBD design.		2	1
5.4	Describe the principles of experimental design.	,	1	1
5.5	Explain the analysis of variance.	•	1	1

CO : Course Outcome Number BTL : Blooms Taxonomy Level Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply	
4: Analyze	5: Evaluate	6: Create	