MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	I (New) Term : First Academic Year : 2023-2	4				
Course No.	11/STAT 111 Title : Elementary Statistics and Computer	: Elementary Statistics and Computer Application				
Credits						
Day & Date	Thursday, 18.01.2024 Time : 10:00 to 13:00 hrs. Total Marks of	10 m				
Note:	1. Solve ANY EIGHT questions from SECTION 'A'.					
	2. All questions from SECTION 'B' are compulsory.					
	3. All questions carry equal marks.					
	Draw neat diagram wherever necessary.					

SECTION 'A'

- Q.1 a) Give probability density function of Normal Probability Distribution with specifications of terms used. State its any four properties.
 - b) Give probability density functions of Poisson Probability Distribution and Binomial Probability Distribution.
- Q.2 Prepare data table, calculation of Sum of Squares and ANOVA table of randomized complete block design with 't' treatments each replicated 'r' times.
- Q.3 a) What do you mean by Measures of central tendency? What are the merits and demerits of Arithmetic Mean?
 - b) Define Harmonic Mean and Geometric Mean. Give formulae for calculating these two measures for continuous frequency distribution.
- Q.4 a) What do you mean by Correlation? List the types of correlation and methods of studying correlation.
 - b) State model and prepare layout of two factor factorial experiment, where factor A having three levels and factor B having two levels (for layout consider three replications).
- Q.5 a) Draw block diagram of a 'Computer'.
 - b) Write features of 'Word processing software'.
- Q.6 a) State five different steps followed in testing a hypothesis. What is Type I error and Type II error?
 - b) Differentiate between Split-plot Design and Strip-plot Design.
- Q.7 Write short notes on (Any Four):
 - a) χ^2 test for the 2 x 2 contingency table
- b) Internet
- c) Measures of dispersion
- d) Latin Square Design
- e) Web browser with suitable example
- f) Spearman's rank correlation coefficient

g) Random sampling

(P.T.O.)

Q.8	a) List out custom animation used in MS-Power point for "Entrance" listed under add effects (Any Four).						
	b) Write names of inbuilt 'statistical functions' in MS-Excel (Any Eight).						
Q.9	a) What are the limitations of 'Statistics'? List out the different methods of sampling.						
Q.5	b) What is Classification? State addition and multiplication theorem of probability.						
Q.10	a) What is Operating system? Enlist the functions of operating system.						
Q.10	b) Enlist the types of computer based on size. Explain Personal Computers.						
	SECTION 'B'						
Q.11	Choose the correct answer-option:						
	1) The geometric mean of 0,1,2,3 and 4 is						
	a) 2 b) 2	2.5	c) 0	d) None of these			
	2) The value of probability lies in between						
	.,	and +1		d) - ∞ and + ∞			
	3) The probability of ge	tting even numl	per, if an unbia	sed die is rolled once, is			
	a) 2, 4, 6 b) (0.1667	c) 0.3333	d) 0.50			
	4) Equality of variance of two populations is tested by						
	a) t-test b) (Chi-square test	c) F-test	d) None of these			
	5) Interaction effect car	be determined	in				
	117	RCBD	c) LSD	d) Split-Plot Design			
	6) Standard Deviation of	of Standard Norr					
	a) less than 0 b) §						
	7) The first page of a website is called the						
	a) Home page b) I	Vet page	c) Website	d) Information page			
	8) EPROM stands for						
	a) Erasable Programmable Read-only Memory b) Error Programmable Read-only Memory						
	c) Erasable Problem	Read-only Men	nory d) Erro	r Problem Read-only Memory			
Q.12	Define the following terms (without formula):						
	1) Sample	2) Sta	ndard error				
	3) Dependent events	4) Mo	del in design o	of experiment			
	5) Mutually exclusive e	vents 6) De	grees of freedo	om			
	7) Statistic	8) Exp	perimental unit	i.			
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