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SEMESTER END THEORY EXAMINATION
B.Sc. (Hons.) Horticulture

Semester	:	I (New)	Term	:	I	Academic Year	:	2020-21
Course No.	:	H/STAT-111	Title	:	Elementary Statistics and computer application			
Credits	:	(2+1)=3						
Day & Date	:	19/07/2021, Monday	Time	:	12.00-2.00	Total Marks	:	80

Note : 1) Solve ANY EIGHT questions from SECTION-A
2) Solve ANY TWELVE questions from SECTION-B
3) ALL questions from SECTION-C are compulsory
4) Send the PDF file of answer sheet to the email id of respective course teacher

SECTION-A	
	(Write the answers in 4-5 sentences only. Each question carries 4 marks)
Q. 1	What is Statistics? Give its importance and limitations.
Q. 2	Explain principle of least squares.
Q. 3	Differentiate between correlation and regression.
Q. 4	Define standard deviation. Also, mention its merits and demerits.
Q. 5	Write the steps involved in testing of hypothesis.
Q. 6	State the characteristics of a binomial distribution.
Q. 7	What are the main features of MS word?
Q. 8	Explain functions of each block of basic organization of computer system. Draw diagram.
Q. 9	What is a random number table? How will you select the random numbers?
Q. 10	What is measure of central tendency? State ideal characteristics of measure of central tendency.
SECTION-B	
	(Write the answers in one sentence only. Each question carries 2 marks)
Q. 11	(Answer in one sentence/Do as directed/Define etc.)
	a) Name any four sources of secondary data.
	b) What is type-I and type-II error in testing of hypothesis?
	c) Explain addition theorem on probability for any two non mutually exclusive events.
	d) Define regression and write down two regression equations.
	e) Define median and mode with example.
	f) Draw scatter diagram to show positive and negative correlations.
	g) Define population and sample.
	h) Define null hypothesis and alternative hypothesis.
	i) Define randomization and local control.
	j) What are the components of MS word?
	k) Write down any four properties of chi square test.
	l) When two dice are thrown, find the probability of getting doublets (Same number on both dice).
	m) State any two characteristics of Poisson distribution.
	n) Write any four characteristics of computer.

SECTION-C			
(Choose the correct option. Each question carry 1 mark)			
Q. 12	1) When the collected data is grouped with reference to time, we have_____.		
	a) Qualitative classification	b) Quantitative classification	
	c) Geographical classification	d) Chronological classification	
	2) The basic operations performed by a computer are_____.		
	a) Arithmetic operation	b) Logical operations	
	c) Storage and relative	d) All the above	
	3) Raw data means_____.		
	a) Primary data	b) Secondary data	
	c) Data collected for investigation	d) Well classified data	
	4) If the grouped data has open-end classes, one cannot calculate_____.		
	a) Median	b) Mean	
	c) Mode	d) Quartile	
	5) For percentiles, the total number of partition values are_____.		
	a) 10	b) 59	
	c) 99	d) 100	
	6) Probability is expressed as_____.		
	a) Ratio	b) Percentage	
	c) Proportion	d) All the above	
	7) Probability can take values from_____.		
	a) $-\infty$ to $+\infty$	b) $-\infty$ to 1	
	c) 0 to +1	d) -1 to +1	
	8) The brain of computer system is_____.		
	a) ALU	b) Memory	
	c) CPU	d) Control unit	
	9) Limits for correlation coefficient_____.		
	a) $-1 \leq r \leq 1$	b) $0 \leq r \leq 1$	
	c) $-1 \leq r \leq 0$	d) $1 \leq r \leq 2$	
	10) Correlation coefficient is independent of change of_____.		
	a) Origin	b) Scale	
	c) Origin and scale	d) None	
	11) The nature of correlation for shoe size and IQ is_____.		
	a) Positive correlation	b) Negative correlation	
	c) No correlation	d) All of these	
	12) If one regression coefficient is greater than unity then other must be_____.		
	a) Greater than unity	b) Less than unity	
	c) Equal to unity	d) None of these	
	13) To move data from one part of the document to another, following is used_____.		
	a) Cut and Delete	b) Cut and Paste	
	c) Copy and delete	d) Copy and Undo	
	14) Ctrl + V means_____.		
	a) Copy	b) Paste	
	c) Add the new page	d) Undo the last action.	
	15) Equality of several normal population means can be tested by_____.		
	a) Bartlett's test	b) F-test	
	c) Chi square test	d) t-test	

Contd..

	16) Analysis of variance technique originated in the field of_____.			
	a)	Agriculture	b)	Genetics
	c)	Industry	d)	Biology
	17) For which of the following distribution mean and variance are equal_____?			
	a)	Normal	b)	Poisson
	c)	Binomial	d)	None of these
	18) The difference between statistical sample and population parameter is termed as_____.			
	a)	Human error	b)	Sampling error
	c)	Non-sampling error	d)	None of the above
	19) Simple random sample can e drawn with the help of_____.			
	a)	Slip method	b)	Calculator
	c)	Random number table	d)	All the above
	20) If each and every unit of population has equal chance of being included in the sample, is known as_____.			
	a)	Restricted sampling	b)	Purposive sampling
	c)	Simple random sampling	d)	None of the above
	21) Repetition of the treatment is known as_____.			
	a)	Replication	b)	randomization
	c)	Local control	d)	All of the above
	22) Poisson distribution correspondence to_____.			
	a)	Rare events	b)	Certain event
	c)	Impossible event	d)	Almost sure event
	23) Total area under the normal probability curve is_____.			
	a)	Less than one	b)	Unity
	c)	Greater than one	d)	Zero
	24) In normal distribution, skewness is_____.			
	a)	One	b)	Zero
	c)	Greater than one	d)	Less than one