

Dr. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA
SEMESTER END THEORY EXAMINATION

Degree: B.Sc. (Hons.) Horticulture

Semester : I(New) Term : I Academic Year : 2021-2022
 Course No. : H/STAT-111 Title : Elementary Statistics and Computer Application
 Credits : (2+1)=3
 Day& Date : Monday 22/11/2021 Time : 4.00-6.00 Total Marks : 80

- Note: 1) Solve ANY EIGHT questions from SECTION-A
 2) Solve ANY TWELVE questions from SECTION-B
 3) All questions from SECTIONS –C are Compulsory
 4) Send the PDF file of answer sheet to Email ID of respective course teacher

SECTION-A

(Write the answers in 4-5 sentences only. Each questions carries 4 marks)

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| Q.1 | Write down the properties of good average. |
| Q.2 | Define statistics. Give its functions and limitations. |
| Q.3 | Define arithmetic mean. Also, mention its merits and demerits. |
| Q.4 | Differentiate between correlation and regression. |
| Q.5 | State characteristics of a normal distribution. |
| Q.6 | Write the steps involved in testing of hypothesis. |
| Q.7 | What are the uses of Internet? |
| Q.8 | Explain functions of each block of basic organization of computer system. Draw block diagram. |
| Q.9 | Write the formulae
i) Range ii) Rank Correlation coefficient iii) Geometric mean iv) F test |
| Q.10 | Compare "Census" and Sampling |

SECTION-B

(Write answers in one sentence only. Each question carry 2 marks)

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| Q.11 | (Answer in one sentence/Do as directed/Define etc.) |
| | a) State the multiplication theorem on probability. |
| | b) List out three basics principles of design of experiment. |
| | c) List out any four measures of central tendency. |
| | d) Define level of significance and Degrees of freedom. |
| | e) Write any four features of computer. |
| | f) Write the full form of CRD and LSD |
| | g) What is basic difference between Quartile and Deciles? |
| | h) Write the name any four programming languages. |
| | i) State the three assumptions ANOVA. |
| | j) Write a coefficient of variation of Range. |
| | k) Write a full form of BASIC and COBOL |
| | l) Write a one formula each for mean deviation and standard deviation. |
| | m) State any two properties of binomial distribution. |
| | n) Write any four features of MS-Word. |

SECTION-C

(Choose the correct option. Each questions carry 1 mark)

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1) Homogeneity of two sample variance is tested by _____			
a)	T-test	b)	Chi-square test.
c)	Z test	d)	F-Test
2) Probability of type I error is called as _____			
a)	Power test	b)	Level of significance
c)	Test statistics	d)	Density function
3) when the collected is grouped with reference to time , We have classification _____			
a)	Chronological Classification	b)	Quantitative Classification
c)	Qualitative Classification	d)	Geographical Classification
3) Standard deviation is written as _____			
a)	Karl's Pearson's	b)	R.A. Fisher
c)	James Thompson	d)	Jacob Bernoulli
4) Variance is square of _____			
a)	Range	b)	Mean deviation
c)	Quartile deviation	d)	Standard deviation
5) Which of the following is not measure of central tendency _____ ?			
a)	Mode	b)	SD
c)	Median	d)	Mean
6) If each and every unit of population has equal chance being selected in sample is called as _____			
a)	Restricted sampling	b)	Mixed sampling
c)	Simple random sampling	d)	Purposive sampling
7) RBD can be used with _____			
a)	Equal replication	b)	Unequal replication
c)	Equal and Unequal replication	d)	Single replication
8) probability lies between _____ to _____			
a)	0 to 1	b)	$-\infty$ to $+\infty$
c)	-1 to +1	d)	-1 to 0
9) Small sample test is applied when sample size is less than _____			
a)	50	b)	30
c)	100	d)	25
10) Mean and variance are equal in _____ Distribution.			
a)	Poisson	b)	Binomial
c)	Normal	d)	All of above
11) _____ is the study of average relationship between two or more variables.			
a)	Regression	b)	Correlation
c)	Scatter diagram	d)	None of above
12) Response variable is also called as _____			
a)	Independent variable	b)	Dependent variable
c)	Treatment	d)	Error
13) Ctrl+S means _____			
a)	Copy	b)	Paste
c)	Save	d)	Undo the last action

14) Microsoft Excel is _____ software.			
a)	Application	b)	System
c)	Firmware	d)	Both a & b
15) All possible outcome of an experiment is called as _____			
a)	Event	b)	Sample space
b)	Random experiment	c)	Mutually exclusive event
16) Correlation lies between ____ to ____			
a)	$-\infty$ to $+\infty$	b)	-1 to 0
c)	0 to 1	d)	1 to +1
17) Which of the flowing test is large sample test?			
a)	F-test	b)	Z-test
c)	T test	d)	Paired t test
18) the Basic operations performed by a computer are _____			
a)	Arithmetic operation	b)	Logical operation
c)	Storage and relative	d)	All of above
19) The example of Mathematical Average is _____			
a)	Mode	c)	Median
c)	Median	d)	Harmonic mean
20) The term of regression means _____			
a	peakedness	b	Lack of symmetry
c	Stepping back towards average	d	All of above
21) ANOVA technique is originated by _____			
a	Karl's Pearson's	b	R.A. Fisher
c	Jacob Bernoulli	d	James Thompson
22) The standard deviation of sample mean distribution is known as _____			
a)	Standard error	b)	Variance
c)	Mean	d)	Skewness
23) Probability of sure event is _____			
a)	0	b)	1
c)	2	d)	All of above
24) _____ memory is used for taking backup of important data.			
a)	Secondary memory	b)	Primary memory
c)	Cache memory	d)	All of above