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Class: BE
AY: 2020-21

Subject: Data Analytics
SEM: II

UNIT-1I

1)	1. A statement made about a population for testing purpose is called?
	a) Statistic b) Hypothesis c) Level of Significance d) Test-Statistic
Ans:	b
Explanation:	
2)	If the assumed hypothesis is tested for rejection considering it to be true is called?
	a) Null Hypothesis b) Statistical Hypothesis c) Simple Hypothesis d) Composite Hypothesis
Ans:	a
Explanation:	
3)	A statement whose validity is tested on the basis of a sample is called?
	a) Null Hypothesis b) Statistical Hypothesis c) Simple Hypothesis d) Composite Hypothesis
Ans:	b
Explanation:	
4)	A hypothesis which defines the population distribution is called?
	a) Null Hypothesis b) Statistical Hypothesis c) Simple Hypothesis d) Composite Hypothesis
Ans:	c
Explanation:	
5)	If the null hypothesis is false then which of the following is accepted?
	a) Null Hypothesis b) Positive Hypothesis c) Negative Hypothesis d) Alternative Hypothesis.
Ans:	d
Explanation:	

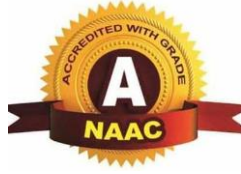
6)	The rejection probability of Null Hypothesis when it is true is called as?
	a) Level of Confidence b) Level of Significance c) Level of Margin d) Level of Rejection
Ans:	b
Explanation:	
7)	The point where the Null Hypothesis gets rejected is called as?
	a) Significant Value b) Rejection Value c) Acceptance Value d) Critical Value
Ans:	d
Explanation:	
8)	If the Critical region is evenly distributed then the test is referred as?
	a) Two tailed b) One tailed c) Three tailed d) Zero tailed
Ans:	a
Explanation:	
9)	The type of test is defined by which of the following?
	a) Null Hypothesis b) Simple Hypothesis c) Alternative Hypothesis d) Composite Hypothesis
Ans:	c
Explanation:	
10)	Which of the following is defined as the rule or formula to test a Null Hypothesis?
	a) Test statistic b) Population statistic c) Variance statistic d) Null statistic
Ans:	a
Explanation:	
11)	Type 1 error occurs when?
	a) We reject H_0 if it is True b) We reject H_0 if it is False c) We accept H_0 if it is True d) We accept H_0 if it is False
Ans:	a
Explanation:	
12)	The probability of Type 1 error is referred as?
	a) $1-\alpha$

	b) β c) α d) $1-\beta$
Ans:	c
Explanation:	
13)	Alternative Hypothesis is also called as?
	a) Composite hypothesis b) Research Hypothesis c) Simple Hypothesis d) Null Hypothesis
Ans:	b
Explanation:	
14)	Which of the following is required by K-means clustering?
	a) defined distance metric b) number of clusters c) initial guess as to cluster centroids d) all of the mentioned
Ans:	d
Explanation:	
15)	Point out the wrong statement.
	a) k-means clustering is a method of vector quantization b) k-means clustering aims to partition n observations into k clusters c) k-nearest neighbor is same as k-means d) none of the mentioned
Ans:	c
Explanation:	
16)	Hierarchical clustering should be primarily used for exploration.
	a) True b) False
Ans:	a
Explanation:	
17)	Which of the following function is used for k-means clustering?
	a) k-means b) k-mean c) heatmap d) none of the mentioned
Ans:	a
Explanation:	
18)	Which of the following clustering requires merging approach?
	a) Partitional b) Hierarchical c) Naive Bayes d) None of the mentioned
Ans:	b
Explanation:	

19)	K-means is not deterministic and it also consists of number of iterations.
	a) True b) False
Ans:	a
20)	Depending on acceptance and rejection of null hypothesis there are 2 types of error produced
	a) Type 1 b) Type 2 c) None of these d) All of these
Ans:	d
21)	The power of a test can be defined as a possibility of ...
	a) Rejecting null hypothesis b) Accepting null hypothesis c) Increasing null hypothesis d) Decreasing null hypothesis
Ans:	a
22)	For a fixed significance level, a greater sample size is mandatory to discover a
	a) Minor difference in mean b) Major difference in mean c) Average difference in mean d) None of the above
Ans:	a
23)	ANNOVA tests if any of the population means vary from other population means
	a) True b) False
Ans:	a
24)	Clustering is defined as group of same kind of objects which are gathered by use of
	a) Unsupervised method b) Supervised method c) Semi supervised method d) None of these
Ans:	a
25)	Following are the applications of Kmeans
	a) Image Processing b) Medical c) Customer Segmentation d) All of the above



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Ans:

d

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