

Unit 05: Role of Statistics in Data Science

1.	The smaller the p-value, the more likely you are to the null hypothesis.			
	Accept	Reject	Can't say	None of the above
2.	If we are comparing just two things, then which test is more applicable?			
	T-test	ANOVA	P-Test	None of the above
3.	Which test compares the size of any discrepancies between the expected results and the actual results?			
	Chi-square test	T-test	ANOVA	None of the above
4.	Asking somebody their favorite color would produce a variable.			
	Nominal	Ordinal	Can't say	None of the above
5.	Which of the following leads to false positive conclusion?			
	Type I error	Type II error	Type III error	None of the above
6.	Which of the following leads to false negative conclusion?			
	Type I error	Type II error	Type III error	None of the above
7.	The result says that “You have a fever, but actually you don’t have”. Then this is			
	Type I error	Type II error	Type III error	None of the above
8.	The probability of making Type I error is			
	Alpha	Beta	Gamma	Lamda
9.	The probability of making Type II error is			
	Alpha	Beta	Gamma	Lamda
10.	The “one-way” or “two-way” ANOVA refers to			
	Number of dependent variables	Number of independent variables	Number of total variables	None of the above
11.	What is nonparametric alternative of ANOVA?			
	PERMANOVA	NONPERMANOVA	ANOVANONPERM	None of the above
12.	“You have a group of individuals randomly split into smaller groups and completing different tasks”. You have this situation, in this case what will be applied?			

One way ANOVA	Two-way ANOVA	Three-way ANOVA	None of the above
13. Which of the following usually represents the equality between the population parameters?			
Null hypothesis	Alternate hypothesis		
14. Can alternate hypothesis and null hypothesis be same at one time?			
Yes	No		
15. Which of the classes of models are used in analysis of variance?			
Fixed effects models	Random effects models	Mixed effects models	All of the above