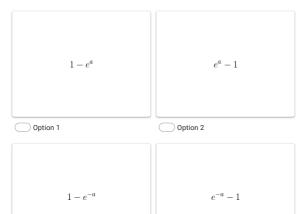
Mathematics-3B Quiz

iired		
ail address *		
No *		
et A. B. C be three events such that P	(B) & P(C) are non-zero and P(A) = 0, then	events A. B. C are
Mark only one oval.		
Independent Pairwise Independent but not Totally P(A) = P(B) = P(C)	Independent	
None of these		
f P(A) > 0 then		
Mark only one oval.		
$P(AB \mid A) \ge P(AB \mid A \cup B)$	$P(AB \mid A) \leqslant P(AB \mid A \cup B)$	
Option 1	Option 2	
Both of the above	None of the above	
Which of the following obey/obeys the	Poisson Probability Law ?	
Mark only one oval.		
The number of misprints on a page o	f book.	
The number of people in a community	y who survive to age 100.	
Both of them None of them		
f 'p' and 'q' are the probability of succ	ess and failure of an even in single trial the	en 1/p + 1/q is
Mark only one oval.		
pq		
p+q		
f E(0.26+0.02)=0.28 then Var(0.28)=		
Mark only one oval.		
0.28		
0.26		

8. The joint density function of X and Y is given by

$$f(x,y) = \begin{cases} 2e^{-x}e^{-2y}, \ 0 < x < \infty \\ 0, \ otherwise \end{cases} then \ P(X < a) \ is$$

Mark only one oval.



Option 4

9. The Expectation of the Sample Mean is equal to

Mark only one oval.

Option 3

- O

Mean of the Distribution.

- None of these
- 10. In a normal curve, the measures of central tendency

Mark only one oval.

- an never be equal.
- are always equal.
- mean and median are equal but not mode.
- mean and mode are equal but not median.
- 11. In which of the following Mean and Variance will have the same value always?

Mark only one oval.

- Normal Distribution.
- Binomial Distribution.
- Poisson Distribution.
- Joint Distribution.
- 12. Markov Chain is a type of

Mark only one oval.

- ontinuous- time chain.
- discrete-time chain.
- ___ both of the above.
- None of the above.
- 13. The Mathematical Modelling tool widely used for Image Processing is/are

Mark only one oval.

- A. Markov Chains.
- B. Linear Algebra.
- Both A and B.
- Neither A nor B.

14.	Data mining, speech recognition, vision, artificial intelligence, etc. have the basis of their algorithm based on
	Mark only one oval.
	Probability Theory.
	Statistics.
•	Probability and Statistics.
	None of the above.
15	To a large de la companya de sala del companya de sala de sala companya de sala de sal
15.	Type-I error also known as producer's risk occurs when
	Mark only one oval.
	the null hypothesis is not true but we accept it
	the null hypothesis is true and we accept it
	the null hypothesis is not true and we reject it
	the null hypothesis is true but we reject it
16.	Which of the following is/are not true ?
	Mark only one oval.
	Cau/XVI~Cau/XVI
	Cov(X,Y)=Cov(Y,X) Cov(X,X)=Var(X)
	Cov(aX,Y)=aCov(X,Y)
	Cov(aX,Y)=Cov(X,Y)
17.	When we want to test a null hypothesis about the relationship between two variables then we are going to use
	Mark only one oval.
	student t-test.
	chi-square test.
	Both of them.
	None of them.
18	Lentokurtic is a term associated with
18.	Leptokurtic is a term associated with
18.	Mark only one oval.
18.	Mark only one oval. negative excess Kurtosis.
18.	Mark only one oval. negative excess Kurtosis. positive excess Kurtosis.
18.	Mark only one oval. negative excess Kurtosis. positive excess Kurtosis. non-negative excess Kurtosis.
18.	Mark only one oval. negative excess Kurtosis. positive excess Kurtosis.
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2/27/2021 Mathematics-3B Quiz

22.	. The predictive modelling technique which investigates the relationship between dependent and independent variable and due to this nature find itself widely used Machine Learning is	
	Mark only one oval.	
	Correlation Analysis.	
	Skewness and Kurtosis Analysis.	
	Regression Analysis.	
	All of the above.	

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