

PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	If every elements of a raw or column of a square matrix A is zero, then the value of the determinant .	A. Equal B. Zero C. One D. Negative related
2	Union of A with A, that is $A \cup A$.	A. Complement of A B. A itself C. Con not be determined D. None of these
3	"Null set is proper subset of all the non nul sets" this statement is.	A. Always true B. sometimes true C. Never true D. True subject to some conditions
4	$AB = BA = 1$, then B is said to	A. Ad joint of matrix of A B. Inverse matrix of A C. Determinant of A D. Cofactor of a
5	The increase in dependent variable that results when the independent variable increases by one unit in a simple lines. function is called.	A. Y intercept of the curve B. Slope of the curve C. X intercept of the curve D. Marginal value
6	The set of 'stars in the sky' is an example of	A. Countable set B. Infinite set C. Finite set D. unit set
7	The sufficient condition required for the matrix to posses inverse is that the matrix should be.	A. square matrix B. Singular matrix C. Non singular matrix D. Orthogonal matrix
8	Unknown values in an equation are called.	A. Constants B. Numeraire C. Variables D. All of the above
9	A square matrix a of order 'n' is called a diagonal matrix if its non diagonal elements are.	A. zero B. Non zero C. One D. None of the above
10	If A and B are symmetric matrices, then $A + B$ is	A. Symmetric B. Non symmetric C. Skew symmetric D. Non skew symmetric
11	If B is a subset of A, then $A \cup B =$	A. B B. Intersection of A and B C. A D. None of these
12	A set totality of elements from all possible sets is called.	A. Union set B. Intersection set C. Universal set D. Unit set
13	A inverse is defined only if A is a	A. Square matrix B. Column vector C. Orthogonal matrix D. Skew symmetric matrix
14	A square matrix a such that $A^2 = a$ is called.	A. Orthogonal matrix B. Skew symmetric matrix C. Idempotent matrix D. Singular matrix
15	A function where a variable x can only very in jumps, is often called.	A. Non linear functions B. Inverse function C. Step function D. All of above

16	A negative definite Hessian fulfills the second order conditions for.	A. Maximum B. Minimum C. both maximum and minimum D. Mini max
17	A determinant composed of all the first order partial derivatives of a system of equations, arranged in ordered sequence is called.	A. Hessian determinatn B. Jacobian determiniant C. Discriminant D. First order determinant
18	If a consumer's budget constraint is given as $P_x X + P_y Y = B$ then the absolute slope of the budget line is.	A. B B. x/y C. P_x/P_y D. None of these
19	In a matrix, if there is only one row but any number of columns, it is called.	A. Row matrix B. Column matrix C. Row vector D. Both a and c
20	The determinant of a matrix and that of its transpose are	A. Equal B. Zero C. One D. Negatively related