

PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	A set containing only one element is termed as	A. Unit set B. Singleton set C. Both a and b D. None of these
2	$AB = BA = 1$, 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
3	The objects constituting a set are called	A. Estimates B. Elements C. Set object D. Noe of these
4	The equilibrium price and quantity, given the inverse demand and supply functions. $p_d = 3q + 30$ and $p_s = 2q - 5$	A. $p = 9$ and $q = 7$ B. $p = 10$ and $q = 7$ C. $p = 9$ and $q = 8$ D. $p = 7$ and $q = 9$
5	The set of all elements belonging to A but not to B is.	A. $B - A$ B. $A - B$ C. A' D. B'
6	If the columns of a given matrix A and B are changed into rows and vice versa, the matrix thus obtained is called the.	A. Symmetric matrix B. Transpose of a matrix C. Singular matrix D. Rank of matrix
7	The determinant of quadratic form is called.	A. Jacobian determinant B. Hessian determinant C. Discriminant D. None of these
8	"No two elements of a set are identical" this statements is.	A. Always true B. Sometimes true C. Not true D. All of the above is possible
9	A diagonal matrix whose diagonal elements are equal is called.	A. Unit matrix B. Singular matrix C. Scalar matrix D. Non singular matrix
10	If two sets contain the same distinct elements, then they are called.	A. Equal sets B. Unequal sets C. Equivalent sets D. All of the above
11	Union of A and the universal set is	A. A B. A' C. Universal set D. None of these
12	if we are told that the two statements $y = 3x^2$ and $y = x + 10$ are bout true at the same time, they are called.	A. Implicit functions B. explicit functions C. Simultaneous equations D. Quadratic equations
13	A positive definite Hessian fulfills the second order conditions for	A. Maximum B. Minimum C. Both maximum and minimum D. Mini max
14	If matrix A is matrix of order $n \times m$ and B is another matrix of order $m \times n$, then BA will be the matrix of order.	A. $n \times m$ B. $m \times n$ C. $n \times n$ D. $m \times m$
15	if $A = A'$, then A is	A. Symmetric matrix B. Skew symmetric matrix C. Identity matrix D. Orthogonal matrix

16	A linear function of the form $6x^2 - 2y + 8 = 0$ is known as.	A. Explicit function B. implicit function C. Quadratic function D. All of the above
17	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
18	Matrix multiplication does not satisfy	A. Associative law B. Distributive law C. Commutative law D. None of the above
19	The sufficient condition required for the matrix to possess inverse is that the matrix should be.	A. square matrix B. Singular matrix C. Non singular matrix D. Orthogonal matrix
20	A function where a variable x can only vary in jumps, is often called.	A. Non linear functions B. Inverse function C. Step function D. All of above