

PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	The matrix A multiplies by its inverse will b e a.	A. Identity matrix B. Skew symmetric matrix C. Idempotent matrix
2	The associative law of union is	D. Adjoin of a matrix A. AU (BUC= (AUB) B. U C C. AUB = BUA D. BUC = BUA
3	Union of A and a null set is equal is.	A. Intersection of A and null set B. Null set C. Both a and b D. A
4	The slope of a horizontal line is.	A. One B. Zero C. Three D. two
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	An equation in which all variables are raised to the first power is known as.	A. Linear equation B. Non linear equation C. Quadratic equation D. Polynomial of degree two
7	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 x m B. m x n C. n x n D. m x m
8	Which method is used for finding inverse of a matrix.	A. Gauss elimination method B. Henrich standard method C. Co factor method D. Both a and c
9	A square matrix a such that A2 = a is called.	A. Orthogonal matrix B. Skew symmetric matrix C. Idempotent matrix D. Singular matrix
10	A set containing only one element is termed as	A. Unit set B. Singleton set C. Both a and b D. None of these
11	any number raise to the power zero is always equal to.	A. zero B. one C. two D. The number itself
12	The variable that stands alone on the left hand side of the equation such as $y = 2x + 1$ is known as.	A. Dependent variable B. Independent variable C. Endogenous variable D. Explained variable
13	Th transpose of the cofactor matrix is called.	A. Adjoin of the matrix B. Power of a matrix C. Minor of the matrix D. Rank of a matrix
14	A matrix with all elements zero other than all the diagonals is called.	A. Diagonal matrix B. Orthogonal matrix C. Unit matrix D. Column vector
15	Unknown values in an equation are called.	A. Constants B. Numeraire C. Variables D. All of the above

16	Given the demand function qo = -8p +2000 and tis inverse p = -1/8 qo + 250 ,p in the inverse function which is interpreted as the maximum price that buyers are willing to pay for the.	A. Supply price B. Demand price C. Equilibrium price D. Reserved price
17	The function $y = 2x + 1$ and $x = 1/2$ y - 1/2 are said to be.	A. Non linear functions B. Inverse functions C. Step functions D. All the above
18	A negative definite Hessian fulfills the second order conditions for.	A. Maximum B. Minimum C. both maximum and minimum D. Mini max
19	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
20	If the determinant formed by the elements of the matrix A is equal to zero, then the matrix is.	A. Skew symmetric B. Singular C. Symmetric D. Non singular