

## PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	For any square matrix A of order 'n' $a + A$ is.	A. Skew symmetric B. Non skew symmetric C. Symmetric D. Non symmetric
2	"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
3	Ordered Pairs of two sets are called.	A. Elements B. Function C. Cartesian product D. None of the above
4	If two sets contains the same number of distinct elements but not the same elements are called.	A. Pie diagram B. Venn diagrams C. Histogram D. Ogives
5	"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
6	For any square matrix a of order 'n'a (Ad)A) is equal to.	A. (Ad) A) A B. Determinant A C. Rank of A D. Both a and b
7	If matrix A is of m x n dimension, then A will be	A. n x m dimension B. m x n dimension C. n x p dimension D. m x m dimension
8	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
9	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
10	A square matrix A, such that $A = A'$ is called a	A. Symmetric matrix B. Skew symmetric matrix C. Singular matrix D. Rank of a matrix
11	Relation between two numbers or variables are called.	A. Function B. Binary relation C. Inverse relation D. None of the above
12	$ax^2 + bx + c = 0$	A. Linear equation B. Quadratic equation C. Polynomial of degree five D. None of these
13	The simplest form of rectangular hyperbola is	A. $y = 1/x$ B. $y = x^2$ C. $y = x-2$ D. $y = x^3$
14	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
15	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

16	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
17	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
18	The value of the dependent variable where the graph cuts the y-axis is called.	A. X - intercept B. Y- intercept C. Slope D. None of these
19	A positive definite Hessian fulfills the second order conditions for	A. Maximum B. Minimum C. Both maximum and minimum D. Mini max
20	If A and B are symmetric matrix, then $AB - BA$ is.	A. Symmetric B. Skew symmetric matrix C. Idempotent matrix D. Orthogonal matrix