PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	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
2	Union of A and the universal set is	A. A B. A' C. Universal set D. None of these
3	Relation between two numbers or variables are called.	A. Function B. Binary relation C. Inverse relation D. None of the above
4	If any equation involving two variables, such as $y = 2x + 1$, the variable that appears on the right hand side of the equation is by convention called.	A. Dependent variable B. independent variable C. Endogenous variable D. Explained variable
5	$(A+B) = (B+A)$ this law of matrices is known as.	A. Cumulative law B. Associative law C. Distributive law D. Identity law
6	A variable which is free to take any value we choose to assign to it is called.	A. Dependent variable B. Independent variable C. Endogenous variable D. Explained variable
7	If A is a square matrix of order ' n' and l is the unit matrix of the same order then A 1 is equal to.	A. A B. 1A C. 1 D. Both a and b
8	The determinant of a matrix and that of its transpose are	A. Equal B. Zero C. One D. Negatively related
9	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
10	If the determinant formed by the elements of the matrix is not equal to zero, then the matrix is called.	A. Skew symmetric B. Symmetric C. Singular D. Non -singular
11	A polynomial equation with degree two a called.	A. Linear equation B. Quadratic equation C. Parabola equation D. All of the above
12	A inverse is defined only if A is a	A. Square matrix B. Column vector C. Orthogonal matrix D. Skew symmetric matrix
13	Given the demand and supply cautions $qo = -8p + 2000$ and $qs = 12p - 200$ respectively the equilibrium price.	A. p = 100 B. p = 110 C. p = 120 D. p = 140
14	Unknown values in an equation are called.	A. Constants B. Numeraire C. Variables D. All of the above
15	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

16	If every element of a set B is also an elements of A then	A. A is a subset of B B. B is a subset of A C. A is not a subset of B D. B is not a subset of A
17	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
18	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
19	"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
20	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