PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	The set of all elements belonging to A but not to B is.	A. B - A **B. A - B** C. A' D. B'
2	The set of subsets of a set A is called.	**A. Power set of A** B. Complement of A C. Both a and b D. None of these
3	A set containing all the elements of the universal set except those of set A is called.	**A. Complement of set A** B. Complement of universal set C. Union of A and universals set D. Universal set itself
4	Collection of well defined distinct objects thought of as a whole is called	A. Union B. Derivative **C. Set** D. Integral
5	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
6	$a\,x^2 + bx + c = 0$	A. Linear equation **B. Quadratic equation** C. Polynomial of degree five D. None of these
7	If each element of a raw of column of a square matrix A is zero, then the value of the determinant. is.	A. Equal B. One **C. Zero** D. None of these
8	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
9	The determinant of quadratic form is called.	A. Jacobian determinant B. Hessian determinant **C. Discriminant** D. None of these
10	A mathematical statement setting two algebraic expressions equal to each other is called.	**A. Equations** B. Hypothesis C. Inequality D. All of above
11	In a matrix , if there is only one row but any number of columns, it is called.	A. Row matrix B. Column matrix **C. Raw vector** D. Both a and c
12	The elements in the Horizontal line in a matrix is called.	A. Columns **B. Rows** C. Elements D. Diagonal
13	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
14	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
15	The slope of a horizontal line is.	A. One **B. Zero** C. Three D. two

16	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
17	For any square matrix A of order 'n' a +A is.	A. Skew symmetric B. Non skew symmetric C. Symmetric D. Non symmetric
18	In Vann diagram the universal set is represented by	A. Points within a rectangle B. Points within a circle C. Both a and b D. None of these
19	If B is a subset of A ,then A is a	A. Super set of B B. Sub set of B C. Empty set of B D. Universal set of B
20	The point at which the graph cuts the x axis is called.	A. x- intercept B. y - intercept C. slope D. None of these