

PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	If A and B are symmetric matrices, then A +B is	A. Symmetric B. Non symmetric C. Skew symmetric D. Non skew symmetric
2	if in a matrix , the number if rows is the same as the number of columns, it is called.	A. Singular matrix B. Non singular matrix C. Square matrix D. Column vector
3	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
4	The equilibrium price and quantity , given the inverse demand and supply functions. $p_o = 3q + 30$ 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 point at which the graph cuts the x axis is called.	A. x- intercept B. y - intercept C. slope D. None of these
6	A positive definite Hessian fulfills the second order conditions for	A. Maximum B. Minimum C. Both maximum and minimum D. Mini max
7	A set containing only one element is termed as	A. Unit set B. Singleton set C. Both a and b D. None of these
8	The set of all elements belonging to A but not to B is.	A. $B - A$ B. $A - B$ C. A' D. B'
9	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
10	A negative definite Hessian fulfills the second order conditions for.	A. Maximum B. Minimum C. both maximum and minimum D. Mini max
11	The objects constituting a set are called	A. Estimates B. Elements C. Set object D. Noe of these
12	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
13	The set which contains all the element of the two given sets A and B, avoiding duplication, is called.	A. Intersection of A and B B. Union of A and B C. Set A and B D. None of these
14	Union of A with A, that is $A \cup A$.	A. Complement of A B. A itself C. Con not be determined D. None of these
15	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

16 any number raise to the power zero is always equal to.

A. zero
B. one
C. two
D. The number itself

17 A set totality of elements from all possible sets is called.

A. Union set
B. Intersection set
C. Universal set
D. Unit set

18 The set of 'stars in the sky' is an example of

A. Countable set
B. Infinite set
C. Finite set
D. unit set

19 Given the demand and supply cautions $q_d = -8p + 2000$ and $q_s = 12p - 200$ respectively the equilibrium price.

A. $p = 100$
B. $p = 110$
C. $p = 120$
D. $p = 140$

20 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
