PPSC Economics Topic 13 Mathematics in Economics

Sr	Questions	Answers Choice
1	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
2	Union of A with A, that is A U A.	A. Complement of A B. A itself C. Con not be determined D. None of these
3	If a Set C contain all the elements which are present in both the set A and B then set C is called.	A. Union of A and B B. Intersection of A and B C. Complement of A D. Complement of B
4	(A+B) = (B+A) this law of matrices is known as.	A. Cumulative law B. Associative law C. Distributive law D. Identity law
5	A positive definite Hessian fulfills the second order conditions for	A. Maximum B. Minimum C. Both maximum and minimum D. Mini max
6	A polynomial equation with degree two a called.	A. Linear equation B. Quadratic equation C. Parabola equation D. All of the above
7	The determinant of quadratic form is called.	A. Jacobian determinant B. Hessian determinant C. Discriminant D. None of these
8	A square matrix with 1's in its principal diagonal and zeros every where else is.	A. Diagonal matrix B. Identity matrix C. Leading diagonal D. Scalar matrix
9	A set totality of elements from all possible sets is called.	A. Union set B. Intersection set C. Universal set D. Unit set
10	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
11	"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
12	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
13	Ordered Pairs of two sets are called.	A. Elements B. Function C. Cartesian product D. None of the above
14	any number raise to the power zero is always equal to.	A. zero B. one C. two D. The number itself
15	Matrix multiplication does not satisfy	A. Associative law B. Distribuitive law C. Commutative law D. None of the above

16	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
17	Who is regarded as the founder of theory of sets.	A. Adam Smith B. Karl Frederich Gauss C. George cantor D. Euller
18	Given the demand function $q_o = -8p + 2000$ and tis inverse $p = -1/8 \, q_o + 250$,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
19	The objects constituting a set are called	A. Estimates B. Elements C. Set object D. Noe of these
20	A determinant compose of all the second order partial derivatives, with the second order direct partials on the principal diagonal and the second order cross partials off the principal diagonal and which is used to second order condition of optimization is called.	A. Jacobian determinant B. Hessian determinant C. Discriminant D. None of these