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## MGQs - Gk # 2: F.Sc Part 1

TEXT BOOK OF ALGEBRA AND TRIGONOMETRY CLASS XI

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## Choose the correct answer

1. The number of different ways of describing a set is

	(a) one (b) two (c) three (d) four
2.	The set of real numbers is the subset of
2	(a) set of natural no. (b) set of rational no. (c) set of integers (d) set of complex no.
3.	{ 1,2,3 } is (a) an infinite set (b) a finite set (c) a singleton set (d) empty set
4.	$\{ x \mid x \in N \land 2 < x < 4 \} \text{ is}$
	(a) an infinite set (b) a finite set (c) a singleton set (d) empty set
5.	A - B =
6.	(a) $A \cap B'$ (b) $A' \cap B$ (c) $A \cup B'$ (d) $A' \cup B$ if $n(A)=n$ then $n(P(A))$ is
	(a) $2n$ (b) $n^2$ (c) $\frac{n}{2}$ (d) $2^n$
7.	Two sets A and B are said to be disjoint if
	(a) $A \cap B = \emptyset$ (b) $A \cap B = A$ (c) $A \cap B = B$ (d) $A \cap B = U$
8.	$A \cap (B \cup C) =$
	(a) $(A \cap B) \cup C$ (b) $(A \cap B) \cup (A \cap C)$ (c) $(A \cup B) \cap C$ (d) $(A \cap B) \cap (A \cap C)$
9.	if A is subset of universal set U then $A \cap A' =$
	(a) $\phi$ (b) A (c) $A'$ (d) U
10.	A statement which is either true or false is called
	(a) induction (b) deduction (c) proposition (d) logic
11.	If p and q are two statements then their conjunction is denoted by
	(a) $p \wedge q$ (b) $p \vee q$ (c) $p \rightarrow q$ (d) $p \leftrightarrow q$
12.	If p and q are two statements then their disjunction is denoted by (a) $p \wedge q$ (b) $p \vee q$ (c) $p \rightarrow q$ (d) $p \leftrightarrow q$
13.	If we have a statement "if p then q "then p is called
13.	(a) conclusion (b) Implication (c) unknown (d) hypothesis
14.	The compound statement $p \leftrightarrow q$ is called
	(a) biconditional (b) implication (c) antecedent (d) hypothesis
15.	If A and B are two sets then any subset R of $A \times B$ is called
	(a) relation on A (b) relation on B (c) relation from A to B (d) relation from B to A
16.	If a is a set then any subset R of $A \times A$ is called
	(a) relation on A (b) relation on B (c) relation from A to B (d) relation from B to A
17.	The set of second elements of the ordered pairs in a relation is called its
18	(a) domain (b) range (c) relation (d) function If $A=\{1,2,3\}$ , then the relation on $A\{(x,y) \mid x,y \in A \land x < y\}$ is
10.	(a) $\{(3,1),(3,2)\}$ (b) $\{(1,2),(2,1),(2,3)\}$ (c) $\{(1,2),(1,3),(2,3)\}$ (d) $\{(1,1),(2,2),(3,3)\}$
19.	The function $f: R \to R$ defined by $f = \{(x, y)   y = mx + c\}$
-, .	(a) a constant function (b) linear function (c) quadratic function (d) none of these
20.	If A, B, C are three sets then $A \cup (B \cup C) = (A \cup B) \cup C$ is called
_0.	(a)Commutative property (b)Distributive property (c)Associative property (d)none these
21.	The graph of the linear function is
	(a) a circle (b) triangle (c) a straight line (d) none of these
22.	The function defined by the equation $y = \sqrt{x}$ , $x \ge 0$ is called
	(a) square root function (b) identity function (c) linear function (d) quadratic function
	(c) square resident (c) means resident (d) quantum function

23.	If $A=\{1,2,3,4\}$ then domain of the relation $\{(1,1),(2,2),(3,4),(4,3)\}$ is (a) $\{1,2,3\}$ (b) $\{\}$ (c) $\{1,2,3,4\}$ (d) none of these	
24.	The binary operation $*$ is called commutative in S if $\forall a,b \in S$	
25.	(a) $a*b=b*a$ (b) $a*b=-b*a$ (c) $ab=ba$ (d) none of these The set of integers is a group w.r.t (a) addition (b) subtraction (c) multiplication (d) division	
26.	The set $\{2^n \mid n \in Z\}$ is a group w.r.t	
27.	(a) addition (b) subtraction (c) multiplication (d) division The set {1,-1,i,-i} is a group w.r.t	
28.	<ul><li>(a) addition</li><li>(b) subtraction</li><li>(c) multiplication</li><li>(d) division</li><li>In which method the elements of the set written within braces.</li><li>(a) tabular</li><li>(b) descriptive</li><li>(c) set-builder</li><li>(d) none of these</li></ul>	
29.	$\{x \mid x \in N \text{ and } x < 1\} \text{ is}$	
30.	(a) singular set (b) set with two elements (c) empty set (d) infinite set A disjunction of two statements p and q is true if	- 4
31.	(a) p is false (b) q is false (c) both p and q are false (d) one of p and q i $(G,*)$ is an abelian group if for all $a,b \in G$ (a) $a+b=b+a$ (b) $ab=ba$ (c) $a*b=b*a$ (d) none of these	s true
32.	If A,B are subsets of universal set U, then $(A \cap B)' =$	
33. 34.	(a) $A \cap B$ (b) $A' \cap B'$ (c) $A' \cup B$ (d) $A' \cup B'$ What is the number of elements of the power set of $\{$ (a) 0 (b) 1 (c) 2 (d) 3 Let A and B be two sets. If every element of A is also an element of B then (a) $A \subseteq B$ (b) $B \subseteq A$ (c) $A \subseteq B'$ (d) $A' \subseteq B$	
35.	If A is the subset of the universal set U then $(A')'=$	
	(a) $\phi$ (b) A (c) U (d) none of these	
36.	If $A \cap B = \phi$ then $n(A \cap B) =$	
37.	(a) $n(A)$ (b) $n(B)$ (c) 0 (d) 1 If $A=\{1,2,3\}$ and $B=\{a,b\}$ then a function from A to B is (a) $\{(1,a),(2,b),(3,a)\}$ (b) $\{(1,a),(2,b)\}$ (c) $\{(a,1),(b,2)\}$ (d) $\{(1,1),(a,1)\}$	2 2) }
38.	If p is a propagation then its negation is denoted by	<i>2,2)</i> j
	(a) $\wedge p$ (b) $\vee p$ (c) $p'$ (d) $\sim p$	
39.	If A is subset of the universal set U then $A \cup A' =$	
	(a) $\phi$ (b) $A$ (c) $U$ (d) $A'$	
40.	If $A \subseteq B$ then $A \cap B =$	
	(a) $A$ (b) $B$ (c) $\phi$ (d) $U$	
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