Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	One second is denoted by	A. 1^0 B. 1' C. 1" D. 1 rad
2	Two sets A and B are said to be disjoint if	
3	Question Image	A. $3\sec^2 x$ B. $3\sec^2 3x$ C. $\sec^2 3x$ D. $\sec^2 x$
4	Arithmetic mean between 14 and 18 is	A. 16 B. 17 C. 15 D. 32
5	Question Image	
6	If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called	A. 1-1 and onto B. Bijective C. 1-1 and into D. None of these
7	Find the geometric mean between 4 and 16	
8	Question Image	A. sec x tan x B. $\cos^2 x$ C. $\sin^2 x$ D. $\sec^2 x$
9	The graph of linear equation 2x + 3y = 10	A. Parabola B. Circle C. Hyperbola D. Straight line
10	If l, m, n are the d.c.'s of a line, then	A. $l^2 + m^2 + n^2 = 0$ B. $l^2 + m^2 + n^2 = 1$ C. l + m + n = 1 D. l = m = n = 1
11	What is the probability of being born on Wednesday?	A. 1/7 B. 1/2 C. 1/3 D. 1/8
12	$x^4 - 3x^3 + 3x + 1 = 0$ is called _____	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
13	The multiplicative inverse of -1 in the set {1-, 1} is	A. 1 B. -1 C. +-1 D. 0
14	$\forall a,b,c \in R$ and c>0, then	A. $a>b \Rightarrow ac < bc$ B. $a>b \Rightarrow ac > bc$ C. $a<b \Rightarrow ac > bc$ D. None of these
15	If n is add the expansion $(a + x)^n$ has middle terms	A. 2 B. 3 C. 4 D. 5
16	The third term of the sequence $a_n = (-1)^{n-1}(n-7)$ is _____	A. 8 B. 4 C. -4 D. 8
17	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these

18	Question Image	
19	$i^{(4n+2)}$ = -------------------------------	A. 1 B. i C. -1 D. -i
20	The minimum value of the quadratic function f(x) = x2 +6x -2, is	A. 11 B. 6 C. -11 D. 13

D. None of these