Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A conjunction of two statement p and q is true only if	A. p is true B. q is true C. Both p and q are true D. both p and q are false
2	a >b, b >c ⇒a >c is a	A. Multiplicative property B. Additive property C. Trichotomy property D. Transitive property of inequality
3	Question Image	
4	Range of cos x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - { x | - 1 < x < 1}
5	Question Image	
6	The set of real roots of the equation $\log_{(5x+4)}(2x+3)^3 - \log_{(2x+3)}(10x^2+23x+12) = 1$ is	A. {-1} B. {-3/5} C. Empty set D. {-1/3}
7	The line 3x - 4y = 0	A. Is a tangent to the circle x²+ y²= 25 B. Is a normal to the circle x²+ y²=25 C. Does not meet the circle x²+ y²= 25 D. Does not pass thro' the origin
8	f(x) = C is	A. identity function B. constant function C. linear function D. quadratic function
9	Question Image	
10	Question Image	A. 0 B. 1 C. 2 D. none of these
11	_____ invented a symbolic way to write the statement "y is a function of x" as y= f(x)	A. Leibniz B. Newton C. Euler D. None of these
12	Question Image	
13	Composition of functions is	A. Non-commutative (fg ≠ gf) B. non-associative [8(fh) ≠(8f)h] C. Commutative (fg = gf) D. f of-1≠ 1
14	Question Image	
15	If c = 2i+j+k and d= -1 + 4j +2k, then [c-d]=	A. √7 B. √41 C. √19 D. √(2&7)
16	Question Image	D. none of these
17	The middle term(s) of (a+x)11 is	A. 6th term B. 6thor 7th C. 7th term D. 6thand7th
18	If in a set of real no a is additive identity then	A. a+a = 2a B. a+a = 1 C. a+a = 0

		D. None of these
19	Question Image	A. 2C B. C³ C. 1 D. 0
20	For all points (x,y) in second quadrant	A. x > 0 , y < 0 B. x > 0 , y > 0 C. x < 0 , y < 0 D. x < 0 , y > 0