

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	120° degrees are equal to how many radians?	
2	Inverse of the function y-10x is	A. y=logx B. y=lnx C. x=10y D. x=10y
3	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}
4	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
5	Question Image	
6	If d_1 is the distance between $(0,0)$ and $(1,2)$ and d_2 is the distance between $(0,0)$ and $(-1,-2)$ the	A. d ₁ < d ₂ B. d ₁ > d ₂ C. d ₁ = d ₂ D. none of these
7	Question Image	A. cos x B. sec x tan x C. sec ² x Dcosec ² x
8	If a statement $S(n)$ is true for $n = i$ where i is some natural number and the truth of $S(n)$ for $n = k > i$ implies the truth of $S(n)$ for $n = k + 1$ then $S(n)$ is true for all positive integers	
9	In natural logarithm the base is	A. 1 B. 0 C. 10 D. e
10	If $\sin\theta$ and $\cos\theta$ are the roots of the equation ax^2 - bx + c = 0, then a , b , c satisfy the relation	A. b ² - a ² = 2ac B. A ² - b ² = 2ac C. A ² + b ² = c ² D. B ² + a ² = 2ac
11	Question Image	A. xa ^{x-1} B. a ^x C. x in a D. a ^x ln a
12	Question Image	
13	The statement that a group can have more than one identity elements is	A. True B. False C. Fallacious D. Some times true
14	If x - 1 is a factor of x4 - 5x2 + 4 then other factor is	A. (x + 2)2(x - 1) B. (x + 2)(x - 1)2 C. (x+2)(x2- x- 2) D. (x + 2)2(x - 1)2
15	Question Image	A. 1 B1 C. 0 D. I
16	The period of sin2x is	A. π/2 Bπ/2 C. π D. π/3

7	Question Image	
8	If A and B are two sets then any subset R of A x B is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
9	3x + 4 = 0 is	A. not inequalityB. equationC. identityD. inequality
0	QU Q' =	A. Q B. Q' C. N D. R