Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If S and P are the sum and the product of roots of a quadratic equation, then the quadratic equation is	A. x²+ Sx - P = 0 B. x²- Sx + P = 0 C. x²- Sx - P = 0 D. X²+ Sx + P = 0
2	Question Image	A. Rational B. Irrational C. Natural D. Odd
3	The sum of the focal distance from any point on the ellipse 9x2 +16y2 =144 is	A. 32 B. 16 C. 18 D. 8
4	Question Image	A. 20 B. 10 C. 0 D. None of these
5	The differential equation of all st. lines which are at a constant distance to form the origin is	
6	If p, q, r and in A.P., a is G.M. between p and q and b is G.M. between q and r, then a^2, q^2, $b^2$are in	A. A.P. B. G.P. C. H.P. D. None of these
7	For any equilateral r :R :ŋ :r1 :r2 :r3 =	A. 1:2:3:4:5 B. 1:2:3:3:3 C. 1:2:4:4:4 D. 2:1 :2 :2 :2
8	Question Image	A. Principle of equality of Fractions B. Rule for product of fraction C. Golden rule of fraction D. Rule of quotient of Fraction
9	Question Image	A. additive property B. multiplicative property C. additive identity D. multiplicative identity
10	Question Image	
11	Question Image	A. 1 B. 7 C. 4 D. None of these
12	Equation of parabola with focus F(-3,1) directrix x=3 is	A. (y -1)2 =-12x B. (y-1)2 =4x C. (x+3)2 =4a(y-1) D. y2 =-12(x-1)
13	Question Image	
14	Inverse of the function y-10x is	A. y=logx B. y=lnx C. x=10y D. x=10y
15	Question Image	
16	The roots of ax2+bx+c=0 are	A. Rational ⇔ b2 -4 ac ≥ 0 B. Irrational ⇔ b2-4 ac > 0 C. Real ⇔ b2-4 ac ≠ 0 D. Rational⇔ b2-4 ac = 0
17	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
18	Question Image	D. none of these

19	If $z_1 = 1 + 2i$, $z_2 = 3 + 4i$ then	A. z₁ > z₂ B. z₁ = z₂ C. z₁ < z₂ D. None of these
20	Two circle $x^2 + y^2+2x - 8 = 0$ and $x^2 + y^2 -6 + 6x -46 =0$:	A. touch internally B. do not intersect C. touch externally D. None of these