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Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If $x^2 + px + 1$ is a factor of $ax^3 + bx + c$, then	A. $a^2 + c^2 = -ab$ B. $a^2 - c^2 = -ab$ C. $a^2 - c^2 = ab$ D. None of these
3	Question Image	
4	For every positive integers n $1+5+9+....+ (4n - 3)$ is	A. $n(2n - 1)$ B. $(2n - 1)$ C. $n - 1$ D. n
5	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
6	Question Image	A. 0 B. 90° C. 180° D. 360°
7	Any whole number can be written as a product of factors which are	A. Odd numbers B. Prime number C. Rational number D. Even number
8	Question Image	
9	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}
10	Question Image	
11	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
12	A circle passing through the vertices of any triangle is called _____	A. In circle B. Circum circle C. Escribed circle D. None of these
13	Question Image	A. 1.5 B. 1.2 C. 8 D. None of these
14	The number of significant numbers which can be formed by using any number of the digits 0, 1, 2, 3, 4 but using each not more than once in each number is	A. 260 B. 356 C. 410 D. 96
15	Question Image	A. $6x - 2 + c$ B. $x^3 - x^2 + x + c$ C. $6x - x^2 + c$ D. $6x^3 - x^2 + c$
16	The vector k = [0,0,1] is called unit vector along:	A. x -axis B. y - axis C. z- axis D. None of these
17	Question Image	

18	A relation in which the equality is true only for some values of the known is called _____	A. An identity B. An equation C. A polynomial D. None of these
19	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. 1/13 B. 2/13 C. 7/52 D. None of these
20	The law of sines can be used to solve	A. Right angle triangle B. Isosceles triangle C. oblique triangle D. haxagon