

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A cone is generated by all lines through a fixed point and the circumference of	A. a Circle B. an ellipse C. a Hyperbola D. None of these
2	Question Image	
3	The 26th term of the A.P -2,-4,10,.....is	A. 136 B. -136 C. 148 D. -148
4	Question Image	
5	If $x^2 - 7x + a$ has remainder 1 when divided by $x + 1$, then $a =$ _____	A. -7 B. 7 C. 0 D. None of these
6	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10
7	Question Image	
8	If $x - 1$ is a factor of $x^4 - 5x^2 + 4$ then other factor is	A. $(x + 2)^2(x - 1)$ B. $(x + 2)(x - 1)^2$ C. $(x+2)(x^2 - x - 2)$ D. $(x + 2)^2(x - 1)^2$
9	The vertices of the ellipse $x^2 + 4y^2 = 16$ are	
10	Five engineering, four mathematics, two chemistry books are placed on a table at random. The probability that the books of each kind are all together is	
11	Question Image	B. $\tan 3x + c$ C. $\cot 3x + c$ D. $-\cot 3x + c$
12	If $x = 1/x$ for $x \in \mathbb{R}$ then the value of x is	A. ± 1 B. 0 C. 2 D. 4
13	The direction cosines of y-axis are	A. 1, 0, 0 B. 0, 1, 0 C. 0, 0, 1 D. 1, 1, 1
14	Question Image	A. 0 B. 1
15	Question Image	
16	Question Image	
17	Question Image	A. Only one real solution B. Exactly three real solution C. Exactly one rational solution D. Non-real roots
18	If $\pi \leq x \leq 2\pi$, then $\cos^{-1}(\cos x) =$	A. $\cos x$ B. $-x$ C. $1/x$ D. $-x$
19	$\sin^{-1} x =$ _____	
20	A subset of set of complex number whose elements are of the form $(a,0)$ is called	A. Real number B. Complex number C. Rational number D. Irrational number

