

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The seventh term of $(x^3+1/x)^8$ is	A. 71 B. -22 C. 27 D. 28
2	Multiplicative inverse of 0 is	A. 0 B. 1 C. +1 D. Does not exist
3	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
4	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. $\cos 76^\circ = -0.7093$ B. $\cos 65^\circ = -0.4258$ C. $\cos 67^\circ = -0.3907$ D. $\cos 62^\circ = -0.8520$
5	If the vector $2i + 4j - 7k$ and $2i + 6j + xk$ are perpendicular then $x = ?$	A. 0 B. 2 C. 4 D. 7
6	Question Image	
7	$120^\circ =$ _____	
8	Question Image	
9	The radian measure of the central angle of an arc 50 m long on a circle of radius 25 m is	A. 3 B. 2 C. 1
10	Question Image	
11	The eccentricity e of an ellipse is always	A. Rational B. Real C. Irrational D. Integer
12	If $E = \{ \}$, then $P(E)$	A. \emptyset B. $\{ \}$ C. $\{(2),(4),(6),\dots\}$ D. $\{\emptyset\}$
13	Question Image	
14	$A = B$ if	D. A is equivalent to B
15	The period of $3 \sin x$ is	A. 2π B. 9π C. 3π D. 5π
16	If $z_1 = 2 + 6i$ and $z_2 = 3 + 7i$, then which expression defines the product of z_1 and z_2 ?	A. $36 + (-32)i$ B. $-36 + 32i$ C. $6 + (-11)i$ D. $0, +(-12)i$
17	The roots of the equation $ax^2 + bx + c = 0$ are real and equal if	A. $b^2 - 4ac < 0$ B. $b^2 - 4ac = 0$ C. $b^2 - 4ac > 0$ D. None of these
18	Question Image	
19	Question Image	

20

Question Image

A. 0

B. 1

D. none of these