

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $z_1 = 1 + 2i$, $z_2 = 3 + 4i$ then	A. $z_1 > z_2$ B. $z_1 \leq z_2$ C. $z_1 < z_2$ D. None of these
2	If $Z = (1, 2)$, then $Z^{-1} = ?$	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2, -0.4) D. (-0.2, -0.4)
3	Question Image	
4	A second degree equation in which coefficients of x^2 and y^2 are equal and there is no product term xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
5	$(x+a)(x+b)(x+c)(x+d) = k$, $k \neq 0$ is reducible to quadratic form only if	A. $a+b=c+d$ B. $a+c=b+d$ C. $a+d=b+c$ D. All are correct
6	Question Image	
7	$i^3 =$	A. -1 B. i C. -i D. 1
8	$\sin 3a =$ _____;	A. $3\sin a - 4\sin^3 a$ B. $4\sin a - 3\sin^3 a$ C. $3\cos^3 a - \cos a$ D. $4\cos^3 a - 3\cos a$
9	Question Image	A. x-axis B. y-axis C. z-axis D. None of these
10	If S is a sample space and event set $E = S$ then $P(E)$ is	A. > 0 B. 1 C. < 1 D. 0
11	Question Image	A. $A = x$, $B = 1$ B. $A = 0$, $B = 2$ C. $A = -1$, $B = 1$ D. $A = x-1$, $B = x+1$
12	Inverse of the function $y = 10^x$ is	A. $y = \log x$ B. $y = \ln x$ C. $x = 10y$ D. $x = 10^y$
13	$\cos 315^\circ =$ _____	
14	Matrices are represented by	A. Natural numbers B. Real numbers C. Small letters D. Capital letters
15	The inclination of a line parallel to y-axis is	
16	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence
17	Question Image	
18	Question Image	

19	In the interval $0 \leq x \leq \pi$, the sine is	A. Not a function B. Not defined C. Infinity D. Not one-to-one function
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20	The conjugate of $\sqrt{5} i$ is	A. $\sqrt{5}$ B. $-\sqrt{5} i$ C. i D. $5i$
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