Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The period of $|\sin 2x|$ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
2	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
3	In polar form of complex number r =	
4	The number of subset of {0} is	A. 1 B. 2 C. 3 D. None
5	If three unequal numbers p, q, r are in H.P. and their squares are in A.P., then the ration p : q : r is	
6	The equation of the line perpendicular to x- axis and passing through (-5,3) is	A. $y - 3 = 0$ B. $x + 3 = 0$ C. $y - 3 = \infty$ D. $x + 5 = 0$
7	If n is any positive integer then $4^n > 3^n + 4$ is true for all	
8	$\sin 5\theta + \sin 3\theta = \underline{\hspace{1cm}}$;	A. $2\sin 4\theta \cos\theta$ B. $2\cos 4\theta \sin\theta$ C. $2\cos 4\theta \cos\theta$ D. $-2\sin 4\theta \sin\theta$
9	The distance of point P(x,y) from focus in a parabola $y^2 = 4ax$, is:	A. $2a$ B. a C. $x + a$ D. $x-a$
10	What is the conjugate of -7 -2i ?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. $\sqrt{53}$
11	If the roots of $ax^2 + bx + c = 0$ are equal in magnitude but opposite in sign, then	A. $a = 0$ B. $b = 0$ C. $c = 0$ D. None of these
12	If $f(x) = x^3$ then f(-2) is	A. -2 B. -4 C. -8 D. 8
13	Question Image	A. $e^x + c$ B. $e^{-x} + c$ C. $x e^x + c$ D. not possible
14	Question Image	
15	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
16	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle B. Equilateral triangle C. Isosceles triangle D. Scalene triangle
17	The sum of the focal distance from any point on the ellipse $9x^2 + 16y^2 = 144$ is	A. 32 B. 16 C. 18 D. 8

18	Let A is a 3 x 3 matrix and B is its adjoint matrix. If |B| = 64, then |A| =
19	Question Image

| 20 | Question Image | A. 20
B. 10
C. 0
D. None of these |