Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The principal value of $\sin^{-1}[-\sqrt{(\sqrt{3})}/2]$ is	A. 5π/3 B. -2π/3 C. -<img width="9" height="19" src="file:///C:/Users/Softsol/AppData/Local/Temp/msohtmlclip1/01/clip_image002.png" v:shapes="_x0000_i1025">π/3 <!--[endif]--><o:p></o:p> D. π/3
4	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
5	The set of rational numbers is subset of	A. The set of natural numbers B. The set of real numbers C. The set of integers D. The set of whole numbers
6	1^0= _____	A. 360' B. 60" C. 60' D. 3600'
7	Question Image	A. -1 B. 1 C. 2 D. -2
8	Question Image	
9	The period of the trigonometric function y = sin x cos x is	A. 2π B. π C. 4π D. π / 2
10	The sum of the focal distance from any point on the ellipse 9x2 +16y2 =144 is	A. 32 B. 16 C. 18 D. 8
11	An equation of the form ax + by = k is homogeneous linear equation when:	
12	Onto function is also called	A. Binjective function B. Injective function C. Surjechive function D. None of these
13	sin (α -β)=	A. sinα cosβ- cosαsinβ B. sinα cosβ+ cosαsinβ C. sinα cosα- cosβsinβ D. sinα cosα- cosβsin<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255,

		224); >p
14	Cos 0° = _____	A. -1 B. 0 C. 1 D. Undefined
15	Power set of X i.e P(X) _____ under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
16	Question Image	A. 0 C. 1
17	Question Image	A. 0 B. 1 C. -1 D. 2
18	If α, β are the roots of $ax^2 + bx + c = 0$ and $\alpha + h, \beta + h$ are the roots of $px^2 + qx + r = 0$, then h =	
19	The period of cot 8x is	A. π/10 B. 9π/7 C. π/9 D. π/8
20	If A is singular then |A| = _____	A. 1 B. 0 C. 2 D. None of these