Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Imaginary B. Rational C. Irrational D. Real numbers
2	Question Image	A. 0 B. 1 C. 13
3	The eccentricity of ellipse becomes zero, then it takes the form of:	A. a parabols B. a straight line C. a circle D. None of these
4	In a class of 100 students, 60 drink tea, 50 drink coffee and 30 drink both. A student from his class is selected at takes at last one of 2 drinks is	A. 2 / 5 B. 3 / 5 C. 4 / 5 D. None of these
5	Question Image	A. One-to-one and onto B. One-to-one but not on to C. Onto but not one-to-one D. Neither one-to-one nor onto
6	If $f(x) = -x^2$ then $f(-2)$ is	A. -2 B. 2 C. -4 D. 4
7	For all points (x,y) in fourth quadrant	A. $x > 0$, $y < 0$ B. $x > 0$, $y > 0$ C. $x < 0$, $y < 0$ D. $x < 0$, $y > 0$
8	Question Image	A. 1 B. 1/2 C. 0 D. None
9	Question Image	A. $\cos x + c$ B. $-\sin x + c$ C. $-\cos x + c$ D. $\sin x + c$
10	Question Image	A. quadrant I B. quadrant II C. quadrant III D. quadrant IV
11	Parametric equation of circle : $x^2+y^2+r^2$, are	A. $r_1 = x \cos\square\ r^2 = y \sin\square$ B. $x = r \cos\square\ y = r \sin\square$ C. $x = r \sin\square 1\ y = r \sin\square 2$ D. $x = r_1 \cos\square\ y = r_2 \sin\square$
12	Equation of normal to the circle $x^2 + y^2 = 25$ at $(5\cos\theta, 5\sin\theta)$	A. $x\cos\theta + y\sin\theta = 5$ B. $x\cos\theta - y\sin\theta = 0$ C. $x\sin\theta - y\cos\theta = 0$ D. None of these
13	Question Image	
14	The set of real roots of the equation $\log_{(5x+4)}(2x+3)^3 - \log_{(2x+3)}(10x^2 + 23x + 12) = 1$ is	A. {-1} B. {-3/5} C. Empty set D. {-1/3}
15	Question Image	
16	The sum if 1,3,5,7,9........ up to 20 terms is	A. 400 B. 472 C. 563 D. 264

17	Question Image	
18	$(0.90)^{1/2}$ is equal to	A. 0.99 B. 0.90 C. 0.80 D. 0.88
19	Question Image	A. A rational number B. A natural number C. An irrational number D. An integer
20	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