Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If A and B are two sets then any subset R of A x B is called	A. relation on A B. relation on B C. relation from A to B D. relation from B to A
2	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers 1, 2, 3, ...10 is	A. 1/5 B. 1/4 C. 1/3 D. 1/2
3	$\sin 2\alpha =$	
4	$\cos 2\alpha =$	A. $\sin^2\alpha + \cos^2\alpha$ B. $-\cos\theta$ C. $\tan\theta$ D. None of these
5	Question Image	
6	Question Image	
7	Question Image	A. cos 2x + c B. - cos 2x + c C. tan 2x + c D. cot 2x + c
8	Question Image	A. Rational fraction B. Proper fraction C. Improper rational fraction D. None of these
9	Question Image	
10	The solution of the equation $\cos^2\theta + \sin\theta + 1 = 0$ lies in the interval	
11	Question Image	
12	Question Image	A. 1 B. 0 C. 5 D. 2
13	Which of the following is not a quadrantal angle	A. 90° B. 100° C. 180° D. 270°
14	Derivative of strictly increasing function is always	A. Zero B. Positive C. Negative D. Both (A) and (B)
15	Question Image	

16	The are of the circle centred at (1 , 2) and passing through (4 , 6) is:	A. 10π B. 25π C. 5π D. 25/2π
17	The third term in the expansion of (1+2x) is	A. -2x2 B. -4x2 C. 2x2 D. 4x2
18	In R, the multiplicative inverse of a is	A. 0 B. 1 C. -a D. 1/a
19	An equation in which at least one term contains dy/dx, $d^2 y /dx^2$ etc, is called.	A. Differential equation B. Initial condition C. General solution D. Singular equation
20	Question Image	