Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Domain of cos x is _____	
2	3j . k x i	A. 0 B. 1 C. 3 D. 9
3	$\tan^{-1}x > \cot^{-1}x$ holds for	A. x > 1 B. x < 1 C. x = 1 D. All values of x
4	The circle $(x - 2)^2 + (y + 3)^2 = 4$ is not concentric with the circle	A. (x - 2)²+ (y + 3)²= 9 B. (x + 2)²+ (y - 3)²= 4 C. (x + 2)²+ (y - 3)²= 8 D. (x - 2)²+ (y + 3)²= 5
5	$(A \cap Bc)c$= ----------	A. Ac ∪ Bc B. Ac ∪ B C. Ac ∩ B D. None of these
6	Which term of the A.P 5,8,11,24.....is 320	A. 104th B. 106th C. 105th D. 64th
7	Question Image	
8	The probability that a person A will be alive 15 years hence is 5/7 and the probability that another person B will be alive 15 years hence is 7/9. Find the probability that both will be alive 15 years hence	A. 4/63 B. 5/9 C. 45/49 D. None of these
9	The proposition S(n) is true $\forall n \in N$,S(k+1) true when _____is true	A. S(1) B. Both a & c C. S(k) D. None
10	(1,0) is in the solution of the inequality	A. 3x + 2y > 8 B. 2x - 3y < 4 C. 2x + 3y > 3 D. x - 2y < -5
11	The area of a sector with central angle of 0.5 radians in a circular region whose radius is 2m is	
12	Question Image	A. 30° B. 45° C. 60° D. 90°
13	i^3 =	A. -1 B. i C. -i D. 1
14	A tower subtends an angle α at a point on the same level as the root of the tower and at a second point, b meters above the first, the angle of depression of the foot of the tower is β. The height of the tower is	A. b cotαtanβ B. b tanαtan<span style="font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255,

		248);">β C. b tanαcotβ D. None of these
15	The sum of complex number (a,b) and (c,d) is	
16	Question Image	
17	The factorial of a positive integers is a (an)	A. Rational number B. Positive integer C. Real number D. None
18	f(x) = ax + b will be a constant function if	A. a = 1 , b = 1 B. a = 1 , b = 0
19	_____ invented a symbolic way to write the statement "y is a function of x" as y= f(x)	A. Leibniz B. Newton C. Euler D. None of these
20	Question Image	A. Addition B. Multiplication C. Division D. Both addition and multiplication