Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	D. none of these
2	Question Image	
3	Which one is not defined $\forall n \in Z+$	A. -n! B. n! C. (-n)! D. n!+0!=n!+1
4	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. 1 / 3 B. 8 / 15 C. 5 / 13 D. 5 / 9
5	Question Image	A. (1,7/3) B. (1, 7/5) C. (1, 11/7) D. (1, 3/5)
6	Period of cos x is _____	
7	If the cutting plane is parallel to the axis of the cone and intersects both of its nappes, then the curve of intersection is	A. an ellipse B. a hyperbola C. a circle D. a parabola
8	Question Image	
9	Question Image	
10	Question Image	A. Trichotomy property B. Additive property of inequality C. Transitive property D. Multiplicative property
11	Question Image	A. 1 B. -i C. i D. 0
12	If A and B are two matrices such that AB = B and BA =A, then $A^2+ B^2=$	A. 2 AB B. 2 BA C. A + B D. AB
13	The roots of the equation 4x - 3.2x+2 + 32 = 0 would include	A. 1 and 3 B. 1 and 4 C. 1 and 2 D. 2 and 3
14	The range of y = sin x is _____	A. [1, -1] B. [-1, 1] C. [0, -1] D. [-∞+∞]
15	(7, 9) + (3, -5) =	A. (4, 4) B. (10, 4) C. (9, -5) D. (7, 3)
16	Question Image	
17	$f(x) = 3x/x^2 + 1$ is:	A. an even function B. an odd function

17	f(x) = 3x/x² + 1 is:	C. an even and implicit function D. neither even nor a odd
18	Which of the following is the subset of all sets?	
19	Question Image	
20	The vertex of the parabola (xsin a -ycos a)2 =4a(xcos a +ysin a) lies at	A. (acos a,asin a) B. (a,0) C. (cos a,sin a) D. (0,0)