Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Number of conics is	A. 1 B. 3 C. 2 D. 4
2	Question Image	
3	$\sin[\cot^{-1}\{\cos(\tan^{-1}x)\}]=$	
4	$\sin(\sin^{-1}(1/2))=$	A. 0 B. 2 C. ∞ D. 1/2
5	For any set B, B∪B' is	A. Is set B B. Set B' C. Universal set
6	In (x + iy), y is called as	A. Imaginary part B. Complex number C. Real part D. None of above
7	Question Image	A. $3x^2 + 2$ B. $3x^2 + 2x + 3$ C. $x^3 + x^2$ D. none of these
8	Eight chairs are numbered 1 to 8. Two women and three men wish to occupy one chair each. First, the women choose the chairs from amongst the chairs marked 1 to 4 and then the men select the chairs from amongst the remaining. The number of possible arrangement is	A. $^6C_3 \times {}^4C_2$ B. $^4C_2 \times {}^4P_3$ C. $^4P_2 \times {}^6P_3$ D. None of these
9	$\sin 540° =$	A. 0 B. 1 C. 2 D. 3
10	Probability of an impossible event is	A. 0 B. -1 C. 1 D. ∞
11	A second degree equation in which coefficients of x^2 and y^2 are equal and there is no product therm xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
12	If all members of a sequence are real numbers then it is called	A. A.P B. Real Sequence C. G.P D. None of these
13	A function whose range is just one element is called	A. One-one function B. Constant function C. Onto function D. Identity function
14	Question Image	A. $\pi/3$ B. $\pi/4$ C. $\pi/6$ D. 0
15	If $f(x) = x^2 - x$ then f(1) is	A. 0 B. 1 C. 2 D. 3

16	The distance of the point (a, b) from x-axis is	A. a B. b C. a + b
17	If a, b, c are in A.P., then 3^a, 3^b, 3^c are in	A. A.P. B. G.P. C. H.P. D. None of these
18	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
19	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
20	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating