

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
		VIISMEIS CHOICE
1	Question Image	
2	Question Image	
3	Matrices A = [aij] 2 x 3 and B =[bij] 3 x 2 are suitable for	A. BA B. A <sup>2</sup> C. AB D. B <sup>2</sup>
4	Question Image	
5	Corner point of the system $x - y \le 2, x + y \le 4, 2x - y \le 6, x \ge 0, y \ge 0$	A. (1,4) B. (4,2) C. (3,1) D. (4,1)
6	A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an opening combination is a particular sequence of three digits with no repeats, the probability of a person guessing the right combination is	A. 1 / 500 B. 1 / 504 C. 1 / 252 D. 1 / 250
7	The number of tangents to the circle $x2+y2-8x-6y+9=0$ which pass through the point (3,-2) is	A. 2 B. 1 C. 0 D. None of these
8	$\forall x,y \in R$ and $x < 0$ , $y < 0$ , which one is true	A. xy < o B. xy = o C. xy > o D. None of these
9	120° degrees are equal to how many radians?	
10	If $ \alpha  + (\alpha+1)j + 2k  = 3$ then value of $\alpha$ is	A. 1,2 B1,-2 C. 1,-2 D1,2
11	Question Image	
12	Question Image	
13	H <sub>1</sub> , H <sub>2</sub> , H <sub>3</sub> , H <sub>n</sub> are called n harmonic means between a and b if a, H <sub>1</sub> , H <sub>2</sub> , H <sub>3</sub> , H <sub>n</sub> b are in	A. H.P. B. G.P. C. A.P. D. None of these
14	Question Image	B. sin 2x + c
		Csin 2x + c
15	Question Image	
16	∀x,y∈R and x> 0 , y>0, if x > y	D. None of these
17	If $Z_1 = 1 + i$ , $Z_2 = 2 + 3i$ , then $ Z_1 - Z_2  = ?$	A. √5 B. √7 C1-2i D. √3
18	The lotus of intersection of perpendicular tangents to the parabola $y^2 = 4ax$ is:	A. Axis of the parabola B. Focal chord of the parabos C. The tangent at vertex of the parabola D. a directrix of the parabola
19	Question Image	A. Symmetric property B. Cancellation property w.r.t. multiplication C. Reflexive property D. Transitive property
20	Question Image	

