Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	1/3 is _____	A. A prime number B. An integer C. A rational number D. An irrational number
2	Question Image	A. Imaginary B. Rational C. Irrational D. Real numbers
3	The period of 3 sin x is	A. 2π B. 9π C. 3π D. 5π
4	Question Image	
5	Which of the following is an identity matrix?	D. none of these
6	The equation of the sphere thro' the origin and making intercepts a, b, c on co-ordinate axes is	A. $x^2 + y^2 + z^2 + ax + by + cz = 0$ B. $x^2 + y^2 + z^2 - 2ax - 2by - 2cz = 0$ C. $x^2 + y^2 + z^2 = a + b + c$ D. $x^2 + y^2 + z^2 - ax - by - cz = 0$
7	Question Image	
8	ϱ is a	A. variable B. Positive constant C. Positive variable D. Directrix
9	If A and B are skew-symmetric then (AB)t is	A. At Bt B. AB C. -AB D. BA
10	Question Image	
11	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix D. Column matrix
12	The familiar plane curves, namely circle, ellipse, parabola and hyperbola are called:	A. cones B. conics C. nappes D. apex
13	$\forall a,b,c \in R$, $a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
14	For any set X, $X \cup X$ is	A. X B. X' C. Φ D. Universal Set
15	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these
16	If A = {x/x is a positive integer and 4≤x<23}, then A=	A. {1,2,3,4,5,6,7} B. {4,5,6...........22} C. {1,2,3,.........23} D. {1,2,3,4,5}
17	$\cos^{-1} 12/13 =$	A. $\tan^{-1} 3/5$ B. $\cot^{-1} 13/12$ C. $\sec^{-1} 13/12$

18	The equation of the normal to the circle $x^2 + y^2 = 25$ at (4, 3) is	A. 3x - 4y =0 B. 3x - 4y =5 C. 4x + 3y = 5 D. 4x + 3y = 25
19	Question Image	D. none of these
20	Question Image	C. 2x D. 2