

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The direction cosines of a line equally inclined with co-ordinate axes are	
2	Question Image	
3	Question Image	
4	Question Image	
5	The extraction of cube root of a given number is a	A. Unary Operation B. Binary Operation C. Relation D. None of these
6	Question Image	
7	The number of real tangents that can be drawn to the ellipse $3x^2 + 5y^2 = 32$ passing thro. (3, 5) is	A. 0 B. 1 C. 2 D. Infinite
8	cos2a=;	A. cos2 a-sin2 a B. 2cos2 a-1 C. 1-2 sin2 a D. All of these
9	The range of the principle cos function is	
10	Question Image	
11	Question Image	
12	ab > 0 and a > 0 then	A. a > b B. a < b C. a = b D. None
13	(A∩Bc)c=	A. Ac∪Bc B. Ac∪B C. Ac∩B D. None of these
14	The number of words that can be formed out of the letters of the word ASSASSINATION is	
15	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
16	Question Image	
17	Question Image	
18	In quadratic equation, if the replacement of y with -y leaves the equation unchanged, then the graph is	A. Straight line B. Circle C. Hyperbola D. Symmetric w.r.t.0
19	The equation of line passing through intersection of line $x = 0$ and $y = 0$ and the point (2,2) is	A. y = x B. y = x - 1 C. y = x + 1 D. y = x + 1
20	if the value of the sphere, v =4/3 $\pi$ r <sup>2,</sup> then the which of the following statement is true?	A. r is the function of v B. v is the function of $\pi$ C. $\pi$ is independent variable D. None of these