

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The negation of a number	A. a relation B. a function C. unary operation D. binary operation
2	$2\cos^2 \frac{a}{2} = \underline{\hspace{1cm}}$ ;	A. $1+\sin a$ B. $1-\sin a$ C. $1+\cos a$ D. $1-\cos a$
3	If $\underline{u} = 2\underline{i} + p\underline{j} + 5\underline{k}$ and $\underline{v} = 3\underline{i} + \underline{j} + p\underline{k}$ are perpendicular , then p=	A. 1 B. 2 C. -1 D. -3
4	Which of the following is a vector.	A. energy B. force C. work D. power
5	Question Image	
6	The multiplicative inverse of 1 is	A. 1 B. -1 C. 0 D. Does not exist
7	Question Image	
8	If (0,4) and (0,2) are vertex and focus of the parabola respectively, the the equation of the parabola is:	A. $x^2 = 4y - 32$ B. $x^2 = 8y - 32$ C. $y^3 = 16x$ D. $x^2 + 8y = 32$
9	The expansion of $(1 + 2x)^{-2}$ is valid if	A. $ x  < \frac{1}{2}$ B. $ x  < 1$ C. $ x  < 2$ D. $ x  < 3$
10	Matrix multiplication is	A. Commutative B. Not commutative C. Not associative D. Not distributive
11	The distance of the point (2,3) from y-axis is	A. 2 B. 3 C. 5
12	Question Image	A. x C. y
13	The line through the centre and perpendicular to the transverse axis is called the	A. Major axis B. Minor axis C. Focal axis D. Conjugate axis
14	Question Image	A. $A^2$ B. $A^2$ C. -A D. A
15	Question Image	D. None of these
16	$1^0 = \underline{\hspace{1cm}}$	
17	Question Image	
18	Question Image	
19	Question Image	

- ☐ A. 4  
☒ C. -8  
☐ D. 8
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