

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	There is no integer n for which $3n$ is	<p>A. Even</p> <p>B. Prime</p> <p>C. Odd</p> <p>D. Real</p>
2	If a,b,c are unit vectors then $ a + b ^2 +  a - b ^2$	<p>A. 4</p> <p>B. <math>8ab</math></p> <p>C. <math>9\cos</math></p> <p>D. <math>4(a,b)</math></p>
3	Question Image	<p>A. 0</p> <p>B. -1</p> <p>C. 1</p> <p>D. <math>1/2</math></p>
4	Question Image	<p>B. <math>a f(x) + c</math></p> <p>C. <math>f(x) + a</math></p>
5	Question Image	
6	If $-1 < x < 0$ , which of the following statements must be true?	<p>A. <math>x &lt; x^2 &lt; x^3</math></p> <p>B. <math>x &lt; x^2 &lt; x^3</math></p> <p>C. <math>x^2 &lt; x^3 &lt; x</math></p> <p>D. <math>x^2 &lt; x &lt; x^3</math></p>
7	Question Image	<p>A. At</p> <p>B. -A</p> <p>C. A</p> <p>D. A-1</p>
8	The exact degree value of the function $\sin^{-1}(-\sqrt{3}/2)$ is	<p>A. <math>70^\circ</math></p> <p>B. <math>50^\circ</math></p> <p>C. <math>90^\circ</math></p> <p>D. <math>60^\circ</math></p>
9	The equation of the tangent at vertex to the parabola is $y^2 = -8(x - 3)$	<p>A. <math>y=0</math></p> <p>B. <math>x=3</math></p> <p>C. <math>x=1</math></p> <p>D. <math>x=5</math></p>
10	The value of x for which the polynomials $x^2 - 1$ and $x^2 - 2x + 1$ vanish simultaneously is	<p>A. 2</p> <p>B. 1</p> <p>C. -1</p> <p>D. -2</p>
11	A matrix with a single column is called	<p>A. Column matrix</p> <p>B. Row matrix</p> <p>C. Identity matrix</p> <p>D. Null matrix</p>
12	Question Image	<p>A. <math>\pi/2</math></p> <p>B. <math>\pi/6</math></p> <p>C. <math>2\pi/3</math></p> <p>D. <math>2\pi/6</math></p>

13	Question Image	
14	Which one is quadrantal angle	A. 8181710° B. 2345° C. -8181180° D. -2344°
15	The law of sines can be used to solve oblique triangle when following information is given:	A. Two angles and a side B. Two sides and an angle opposite one of the given sides C. Two sides and the angle between two sided D. Option a and b
16	Domain of $y = \cot x =$ _____	
17	The expression $x^2 - x + 1$ has	A. One proper linear factor B. No proper linear factor C. Two proper linear factors D. None of these
18	Period of $2 \cos x$ is _____	
19	Question Image	A. 2 B. 4 C. 3 D. 16
20	Question Image	A. 0 B. 90° C. 180° D. 360°