

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The angle of depression of a point A on the ground from the top of the tower is $30^\circ$ , then the angle of elevation of the top of the tower at the point A is	A. $60^\circ$ B. $40^\circ$ C. $41^\circ$ D. $30^\circ$
2	The area bounded by $y = x(x^2 - 4)$ and below x - axis is	A. 4 B. 0 C. -4 D. 8
3	$45^\circ =$ _____	
4	If the roots of $ax^2 + bx + c = 0$ ( $a > 0$ ) be greater than unity, then	A. $a + b + c = 0$ B. $a + b + c > 0$ C. $a + b + c < 0$ D. None of these
5	If the roots of $ax^2 - bx - c = 0$ change by the same quantity, then the expression in a, b, c that does not change is	
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2 B. 4 C. 6 D. 8
7	If $u = xi + yj$ , then $ u $	A. $x^2 + y^2$ B. $(x^2 + y^2)^2$ C. $x^2 - y^2$ D. $\sqrt{x^2 + y^2}$
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $2s^2$ B. $2s^3$ C. $s^3$ D. $3s^3$
9	The real number system contains.	A. Positive Numbers B. Negative numbers C. Zero D. (option a, b and c)
10	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $5x^4 + c$ B. $\frac{1}{6} x^6 + c$ C. $5x^2 + c$ D. $\frac{1}{5} x^6 + c$
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $-\cos x$ B. $\sin x$ C. $-\sin x$ D. $\sec x$
12	For all points (x,y) in second quadrant	A. $x > 0, y < 0$ B. $x > 0, y > 0$ C. $x < 0, y < 0$ D. $x < 0, y > 0$
13	$(x^3 - 1/x)^{12}$	A. 295 B. 495 C. 395 D. 722
14	The angle between lines $xy = 0$ is	A. $45^\circ$ B. $60^\circ$ C. $90^\circ$ D. $180^\circ$
15	Domain of $\sin x$ is _____	
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	A number A is called the arithmetic mean between a and b if a, A, b is _____	A. Arithmetic sequence B. Geometric sequence C. Harmonic sequence D. Arithmetic sequence

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18	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
19	If n is a negative integer n! is	A. 1 B. 0 C. Unique D. Not defined
20	If A is a non singular matrix then $A^{-1} =$ _____	

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