

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Arithmetic mean between $x - 3$ and $x + 5$ is	A. $x + 1$ B. $x + 2$ C. $x + 3$ D. $x + 4$
2	A sequence having no last term is called	A. arithmetic sequence B. Geometric sequence C. Finite sequence D. Infinite sequence
3	The equation of the circle witch centre $(-3, 5)$ and radius 7 is	A. $(x-3)^2 + (y+5)^2 = 7^2$ B. $(x-3)^2 + (y-5)^2 = 7^2$ C. $(x+3)^2 + (y+5)^2 = 7^2$ D. $(x+3)^2 + (y-5)^2 = 7^2$
4	The maximum value of $Z = 3x + 4y$ subjected to the constrains $x + y \leq 40, x + 2y \leq 60, x \geq 0$ and $y \geq 0$ is	A. 120 B. 100 C. 140 D. 160
5	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
6	Question Image <input style="width: 100%; height: 20px;" type="text"/>	A. $(a + b)c = a \cdot c + bc$ B. $a + b = b + a$ C. $(a + b) + c = a + (b + c)$ D. $a(b + c) = ab + ac$
7	The two parts into which 57 should be divided so that their product is 782 are	A. 43,14 B. 34,23 C. 33,24 D. 44,13
8	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
9	If $4 \sin^2 \theta = 1$, then values of θ are	
10	Question Image <input style="width: 100%; height: 20px;" type="text"/>	
11	The quadratic equation $8 \sec^2 \theta - 6 \sec \theta + 1 = 0$ has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
12	Range of $\tan x$ is _____	A. $[-1, -]$ B. \mathbb{R} C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
		A. <div style="background-color: #e0f2f1; padding: 2px; font-size: 18px; font-family: 'Times New Roman'; color: #333333;">I and</div> B. <div style="background-color: #e0f2f1; padding: 2px; font-size: 18px; font-family: 'Times New Roman'; color: #333333;">I quadrants</div> C. <div style="background-color: #e0f2f1; padding: 2px; font-size: 18px; font-family: 'Times New Roman'; color: #333333;">I and II quadrants</div> D. <div style="background-color: #e0f2f1; padding: 2px; font-size: 18px; font-family: 'Times New Roman'; color: #333333;">I, II and III quadrants</div>

