

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The only function which is both even and odd is	A. $f(x) = \alpha$ B. $f(x) = x$ C. $f(x) = 0$ D. Both A & B
2	The domain of $y = \cos^{-1} x$ is	A. $-\infty < x < \infty$ B. $-1 \leq x \leq 1$ C. $x \leq -1$ or $x \geq 1$ D. None of these
3	$\tan(-135^\circ) = \theta$	A. 0 B. 1 C. 2 D. 3
4	Question Image	A. quadrant I B. quadrant II C. quadrant III D. quadrant IV
5	Cosec $60^\circ =$	
6	The equation of the circle with 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. $(x+3)^2 + (y-5)^2 = 7^2$
7	Question Image	A. 8 B. $1/56$ C. 56 D. None of these
8	If the radius of a circle is increased by 1 then area of circle will be	A. πr^2 B. $\pi(r+1)^2$ C. $\pi r^2 + 1$ D. $2\pi(r+1)$
9	Question Image	A. $2x$ B. $3x^2$ C. 1 D. 0
10	$\cos(\pi/2 - \theta) =$;	A. $\cos \theta$ B. $\sin \theta$ C. $-\cos \theta$ D. $-\sin \theta$
11	Question Image	
12	Question Image	A. 0 B. 2 C. $4/3$ D. $5/3$
13	$(\sqrt{3} + \sqrt{5}) + \sqrt{7} = \sqrt{3} + (\sqrt{5} + \sqrt{7})$ property used in above is	A. Commutative property of addition B. Closure property of addition C. Additive inverse D. Associative property w.r.t to addition
14	Question Image	A. $Y = -x \log x - x + c$ B. $Y = x \log x + x$ C. $Y = x \log x - x + c$ D. None of these
15	Question Image	
16	Question Image	

17	Which element is the additive inverse of (a,b) in Complex numbers	B. $(0,b)$ C. (a,b) D. $(-a,-b)$
18	$\sec h x =$ _____	
19	If a,b,c are in arithmetic progression, then $1/a, 1/b, 1/c$ are in	A. A.M B. G.M C. H.M D. G.P
20	<div>Question Image</div>	A. $2x - 3x + c$ C. $x^{2/2} - 3x + c$