

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	A function from X to Y is written as	B. $f : X \text{ to } Y$ D. $f : Y \text{ to } Y$
2	Question Image	
3	The set $\{Z \setminus \{0\}\}$ is group w.r.t	A. Addition B. Multiplication C. Division D. Subtraction
4	Question Image	
5	Question Image	A. $2b$ B. $2a$ C. $2ab$ D. $a + b$
6	The period of the trigonometric function $y = \sin x \cos x$ is	A. 2π B. π C. 4π D. $\pi / 2$
7	If $4 - x > 5$, then	A. $x > 1$ B. $x < -1$ C. $x \leq 1$ D. $x \leq -1$
8	Question Image	A. π B. 2π C. $\pi/2$ D. None of these
9	Question Image	
10	Question Image	
11	The distance of the plane $2x - 3y + 6z + 14 = 0$ from the origin is	A. 14 B. 2 C. -2 D. 11
12	Domain of $\cos \theta$ is	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
13	Which of the following function form 1 to itself are bi-jective	A. $F(x) = x + 3$ B. $F(x) = x^{5/5}$ C. $F(x) = 3x + 2$ D. $F(x) = x^{2/2} + x$
14	Question Image	
15	$\sin \alpha =$	A. $2 \sin \alpha$ B. $2 \sin \alpha$ C. $2 \sin \alpha$ D. $2 \sin \alpha$

$\cos \alpha$
 $\cos \beta$
 $2 \sin \frac{\alpha}{2} \cos \frac{\alpha}{2}$
 $1 + \tan^2 \alpha$

16	5 unbiased coins are tossed simultaneously. The probability of getting at least one head is	<p>A. $1/32$ B. $31/32$ C. $1/16$ D. None of these</p>
17	How many terms of the A.P 3,6,9,12,15.....must be taken to make the sum 108	<p>A. 8 B. 6 C. 7 D. 36</p>
18	The product of the four fourth roots of unity is	<p>A. 0 B. 1 C. -1 D. None of these</p>
19	<p>Question Image </p>	<p> $A(A - A) - A(A - A)$ $B(A - A) + A(A - A)$ $C(A - A) - A(A - A)$ $D(A - A) + A(A - A)$ </p>
20	<p>Question Image </p>	