

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	Question Image	A. 9 B. -9 C. 0 D. 1
4	Range of $\cot \theta$ is	A. $(+\infty, +\infty)$ B. $(-\infty, -\infty)$ C. $(-\infty, +\infty)$ D. Set of even numbers only
5	Question Image	A. 1 B. -i C. i D. 0
6	Period of $3 \sin x$ is _____	
7	Two cards are drawn at random from a well shuffled pack of cards. The probability that at least one of them is a face card is	A. $3/17$ B. $5/17$ C. $7/17$ D. $9/17$
8	$QUQ, =$	A. N B. R C. W D. Z
9	The set $\{x \in \mathbb{N} \wedge x-4=0\}$ in tabular form is	A. $\{-4\}$ B. $\{0\}$ C. $\{\}$ D. None of these
10	Question Image	A. -10 B. $10/7$ C. $-10/7$ D. $-7/10$
11	Question Image	
12	Question Image	
13	The horizontal distance between the two towers is 60 m. the angular elevation of the top of the taller tower as seen from the top of the shorter one is 30° . If the height of the taller tower is 150 m, the height of the shorter one is	A. 116 m B. 200 m C. 216 m D. None of these
14	Question Image	A. $A = x, B = 1$ B. $A = 0, B = 2$ C. $A = -1, B = 1$ D. $A = x-1, B = x+1$
15	A square matrix A for which $A^t = -A$ is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
16	In R the right cancellation property w.r.t. addition is	
17	The corner point of the boundary lines, $x-2x$ $x+2y=10$ is:	A. (8,1) B. (1,8) C. (6,10)

		D. (3,5)
18	$\forall z \in \mathbb{C}$, multiplucative is	A. (1,1) B. (1,0) C. (0,1) D. None of these
19	Question Image	A. $-2x \cos x$ B. $-2x^2 \sin x$ C. $-x^2 \sin x$ D. $-2x^2 \sin x$
20	When we expand $(a + 2b)^5$ then	A. $a^5 + 10a^4b + 40a^3b^2 + 80a^2b^3 + 80ab^4 + 32b^5$ B. $a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5$ C. $5a^5 + 4a^4b + 3a^3b^2 + 2a^2b^3 + ab^4 + b^5$ D. None