

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Diagonal matrix B. Scalar matrix C. Triangular matrix D. Identity matrix
2	$f(x) = \sin x$ is:	A. an odd function B. an even function C. an implicit function D. an exponential function
3	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7 - 2i$ D. None of these
4	Question Image	D. all are correct
5	The solution set of the equation $ 3x + 2 = 5$ is	
6	$\tan 294^\circ =$ _____;	A. $\tan 24^\circ$ B. $-\tan 24^\circ$ C. $\cot 24^\circ$ D. $-\cot 24^\circ$
7	The sum even binomial coefficient of $(3+2x)^5$ is _____ term	A. 16 B. 30 C. 8 D. 32
8	$\sin^{-1}x =$ _____	
9	The condition for polynomial equation $ax^2 + bx + c = 0$ to be quadratic is	
10	The middle term of the expansion $(1 + 2x)^6$ is _____	A. 1st term B. 4th term C. 2nd term D. 5th term
11	The domain of the function $x/x^2 - 4$ is given by	A. R B. $R + 2$ C. $[R - (\sqrt{2} + \sqrt{2})]$ D. $R - 4$
12	The different of $\tan x$ is	A. $\sec^2 x$ B. $\ln \sec x $ C. $\sec^2 x dx$ D. $-\cos^2 x$
13	Question Image	
14	The third term of a G.P. is the square of first term. If the second term is 8, then the 6th term is	A. 120 B. 124 C. 128 D. 132
15	Question Image	A. $e^{x^2} + c$ B. $e^{x^2} - x^2 + c$ C. $x e^{x^2} + c$ D. not possible
16	Question Image	A. 2^{2n-1} B. $1 - 2^{n-1}$ C. $n + 2^{n-1}$ D. 2^{n-1}
17	Question Image	
18	Question Image	
19	Name the property used in $100 + 0 = 100$	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity

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Question Image

- A. an A.P.
- B. a G.P.
- C. a H.P.
- D. None of these