

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. $2x + 3$ B. $x^2 + 3 + c$
2	Question Image	A. quadratic function B. constant function C. linear function D. exponential function
3	Question Image	
4	The exact value of $\cos^{-1}(-1) + \cos^{-1}(1) =$	A. π B. $-\pi$ C. $\pi/2$ D. $\pi/3$
5	Question Image	A. $-\operatorname{cosec}^2 x$ B. $-\sec^2 x$ C. $-\operatorname{cosec} x \cot x$ D. $\operatorname{cosec} x$
6	Question Image	
7	Question Image	
8	Question Image	
9	The general term in the expansion of $(a+x)^n$ is	A. $(r-1)$ th term B. $(r+1)$ th term C. r th term D. none
10	An equation which holds good for all values of variables is called	A. Equation B. Conditional equation C. Constant D. None
11	Question Image	A. Closure law of addition B. Closure law of multiplication C. Commutative law of addition D. Commutative law of multiplication
12	Question Image	A. 3K B. K2 C. K3 D. K
13	The value of $\sin^2 20^\circ + \sin^2 70^\circ$ is equal to	A. 1 B. 2 C. -1 D. $1/2$
14	Question Image	
15	Question Image	A. $P(A) + P(B)$ B. $P(A) - P(B)$ C. $P(A) \cdot P(B)$ D. $P(A) / P(B)$
16	The equation $x^2 + y^2 + 2g + 2fy + c = 0$ represents a circle whose centre is :	A. (g, f) B. $(-g, -f)$ C. $(2g, 2f)$ D. $(-2f, -2g)$
17	Geometric mean between a and b is	
18	Cofactor of an element a_{ij} is defined by	A. $(-1)^{i+j} A $ B. $(-1)^{i+j} M_{ij}$ C. $(-1)^{i+j} M_{sup>i+j</sup>M_{sup>-1</sup>}$ D. None of these
19	Question Image	A. k3 B. 0 C. ^

C. 3k
D. k6

20 If n is odd the expansion $(a + x)^n$ has middle terms

A. 2
B. 3
C. 4
D. 5