

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	<input type="text" value="Question Image"/>	D. none of these
2	<input type="text" value="Question Image"/>	
3	The function $\phi(x)$ is ananti derivativeof function $f(x), x \in D$ if	A. $\phi'(x) = f(x)dx$ B. $\phi(x) = \int f(x)dx$ C. $\phi'(x) = f(x)$ D. $\phi(x) = \int f'(x)dx$
4	Which of the following sets has closure property w.r.t. addition	A. $\{0\}$ B. $\{1\}$ C. $\{0, -1\}$ D. $\{1, -1\}$
5	Equation of parabola with focus $F(-3,1)$ directrix $x=3$ is	A. $(y-1)^2 = -12x$ B. $(y-1)^2 = 4x$ C. $(x+3)^2 = 4a(y-1)$ D. $y^2 = -12(x-1)$
6	<input type="text" value="Question Image"/>	
7	The set of first elements of the ordered pairs in a relation is called its	A. domain B. range C. relation D. function
8	The quadratic formula is	
9	The function discontinuous at $x = 0$ is (I) $\tan x$ (II) $\cot x$ (III) $\sec x$ (iv) $\operatorname{cosec} x$	A. I & III B. I & IV C. II & IV D. II & III
10	Which of the following is a scalar.	A. force B. frequency C. weight D. acceleration
11	<input type="text" value="Question Image"/>	A. 3 B. 1 C. 4
12	$\sec(-360^\circ) = \underline{\hspace{2cm}}$	A. 0 B. 1 C. 2 D. 3
13	<input type="text" value="Question Image"/>	A. -1 B. 0 C. 1 D. None of these
14	$i =$	
15	<input type="text" value="Question Image"/>	A. Evert element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
16	For $f(x) = x^2$, what is the value of $f(a) + f(-a)$ in terms of a ?	A. $3a^2$ B. $2a^2$ C. $2a$ D. $-7a$
17	$\sin(3\pi/2 - \theta) = \underline{\hspace{2cm}};$	A. $\sin\theta$ B. $\cos\theta$ C. $-\sin\theta$ D. $-\cos\theta$
18	1.4142135... is _____	A. A natural number B. A rational number C. A prime number D. An irrational number

19

Question Image

20

Question Image

- A. -1
- B. 0
- C. 1
- D. None of these