

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$f(x) = x$ is	A. trigonometric function B. exponential function C. quadratic function D. identify function
2	Question Image	A. -1 B. 0 C. 1 D. undefined
3	What is the 26th term of the sequence, if its general term is $a_n = (-1)^{n+1}$	A. 2 B. 26 C. 27 D. 1
4	The distance between the points A(-8,3) and B(2,-1) is	B. 116 D. none of these
5	$2\cos^2 a/2 = \underline{\hspace{1cm}}$;	A. $1+\sin a$ B. $1-\sin a$ C. $1+\cos a$ D. $1-\cos a$
6	The second degree equation of the form $Ax^2 + By^2 + Gx + Fy + C = 0$ represent hyperbola if	A. $A = B \neq 0$ B. $A \neq B$ and both are of same sign C. $A \neq B$ both are of opposite sign D. Either $A = 0$ or $B = 0$
7	Question Image	A. $\frac{C}{r}$ B. $\frac{C}{r+1}$ C. $\frac{C}{r+1}$ D. None
8	The probability that a slip of number divisible by 4 is picked from the slips bearing numbers 1, 2, 3, ...10 is	A. $\frac{1}{5}$ B. $\frac{1}{4}$ C. $\frac{1}{3}$ D. $\frac{1}{2}$
9	Period of $\cot x$ is _____	
10	Question Image	A. 6, -12, -18 B. -6, 4, 9 C. -6, -4, -9 D. -6, 12, 18
11	The multiplicative inverse of x such that $x = 0$ is	A. $-x$ B. does not exist C. $\frac{1}{x}$ D. 0
12	Question Image	A. x^3 B. $3x^2$ C. $3x$ D. 3
13	Question Image	
14	The sample space for tossing a coin twice is	A. {H, T} B. {HH, HT, TH, TT} C. {H, T, HH} D. {HH, HT, TT}
15	The third term of a G.P. is 4, The product of first five terms is	A. 43 B. 45 C. 46 D. None of these
16	$A - B = \underline{\hspace{1cm}}$	
17	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. $\angle A$ is obtuse B. $\angle A$ is acute C. $\angle A$ is right-

angle
D. All
of above

18

Question Image

- A. 20
B. 10
C. 0
D. None of these

19

$x^3 + 2x^2 - 3x + 5$ is _____

- A. An equation
B. A polynomial
C. Proper rational fractions
D. Improper rational fractions

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If the pth, qth, and rth terms of an A.P. are in G.P., then the common ratio of the G.P. is