

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	Multiplicative inverse of "1" is	A. 0 B. $\frac{1}{1}$ C. 1 D. {0, 1}
2	Question Image	
3	Question Image	
4	In general matrices do not satisfy	A. Commutative law w.r.t multiplication B. Associative law w.r.t addition C. Distributive law w.r.t addition D. Multiplication of a scalar with the matrix
5	If A and B are matrices of same order than $(A + B)(A + B) =$	A. $A^2 + B^2$ B. $A^2 + B^2 + 2AB$ C. $A + B$ D. $A^2 + B^2 + AB + BA$
6	In the expansion of $(a + b)^n$ in every term the sum of the exponents of a and b is	A. n B. $n + 1$ C. $2n - 1$ D. $2n + 1$
7	A fraction in which the degree of the numerator is less than the degree of the denominator is called	A. Polynomial B. Proper fraction C. Rational fraction D. Mixed fraction
8	The equation of the normal to the circle $x^2 + y^2 = 25$ at (4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$
9	Period of $\sin 2x =$	
10	Question Image	
11	Question Image	
12	The nth term in G.P 3, -6, 12, is	A. $3(-2)^{n-1}$ B. $2(-2)^{n+1}$ C. $3(-2)^{n-1}$ D. $4(-2)^{n-1}$
13	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 12 B. 1 C. 10 D. -10
14	The complement of set A relative to universal set U is the set	D. $A - U$
15	Question Image	A. 10 B. 20 C. 40 D. 26
16	If $4 - x > 5$, then	A. $x > 1$ B. $x < -1$ C. $x < 1$ D. $x < -1$
17	If n is a positive integer, then $3+6+9+ \dots +3n =$	
18	Question Image	
19	Question Image	A. 0 B. 1 C. -1 D. 2

20

Question Image

- A. 1
- B. 2
- C. 3
- D. 4