

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The product of the four fourth roots of unity is	A. 0 B. 1 C. -1 D. None of these
2	If S_n is a definite number as $n \rightarrow \infty$, then the geometric series is	A. Convergent B. Divergent C. Oscillatroy D. None of these
3	Question Image	A. Improper rational fraction B. Proper rational fraction C. Polynomial D. Equation
4	The general solution of the differential equation $x \, dy / dx = 1 + y$ is:	A. 2 B. 1 C. 3 D. None
5	If $f(x) = -x^3$ then $f(-2)$ is	A. -2 B. -4 C. -8 D. 8
6	Question Image	
7	Question Image	
8	If 2 and 2 are x and y components of vector then its angle with x-axis is	A. 30° B. 45° C. 60° D. 90°
9	The expansion $(1 + x)^{-3}$ holds when	A. $ x > 1$ B. $ x < 1$ C. $x < 1$ D. $x > 1$
10	The multiplicative inverse of x such that $x = 0$ is	A. -x B. Does not exist C. $1/x$ D. ± 1
11	Question Image	
12	$\tan 294^\circ = \underline{\hspace{2cm}}$;	A. $\tan 24^\circ$ B. $-\tan 24^\circ$ C. $\cot 24^\circ$ D. $-\cot 24^\circ$
13	Question Image	A. $y + 1 = Ae^{x^2}$ B. $y + 1 = Axe^{x^2}$ C. $xe^{x^2} = C$ D. $y + xe^{x^2} = C$
14	The order of the matrix A is 3×2 and that of B is 2×3 . The order of the matrix BA is	A. 3×3 B. 3×2 C. 2×5 D. 5×2
15	Question Image	A. 8 C. 4 D. 64
		A. Symmetric property

16	Question Image	<p>B. Cancellation property w.r.t. multiplication</p> <p>C. Reflexive property</p> <p>D. Transitive property</p>
17	Each point of the feasible region is called	<p>A. Solution</p> <p>B. feasible solution</p> <p>C. Both a & b</p> <p>D. None</p>
18	The equation of the circle with centre (5, -2) and radius 4 is	<p>A. $(x-5)^2 + (y+2)^2 = 16$</p> <p>B. $(x-5)^2 + (y+2)^2 = 4$</p> <p>C. $(x-5)^2 + (y-2)^2 = 16$</p> <p>D. $(x-5)^2 + (y-2)^2 = 4$</p>
19	Question Image	
20	Question Image	D. both a & c