Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The roots of $(b-c)x^2+(c-a) x+a-b=0$ are equal if	A. $2b = a+c$ B. $2a = b+c$ C. $2c = a+b$ D. $a + b + c =0$
2	The square root of $2i - 20i$ is	A. $+-(5 - 2i)$ B. $+-(5 + 2i)$ C. $(5 - 2i)$ D. None of these
3	If n is a positive integer then n! is	A. $(n - 1) (n - 2) .....3,.2.1$ B. $n(n - 1) (n - 2) ...3.2.1$ C. $n(n - 1) (n -2) ... 3$ D. None of these
4	Question Image	
5	The order of the matrix A is 3 x 5 and that of B is 2 x 3.The order of the matrix BA is	A. 2 x 3 B. 3 x 2 C. 2 x 5 D. 5 x 2
6	Question Image	A. Principle of equality of fractions B. Rule for product of fraction C. Rule for quotient of fraction
7	A = [3] is a/an	A. Square matrix B. Scalar matrix C. Diagonal matrix D. Identity matrix
8	The range of inequality $x + 2 > 4$ is	A. $(-1, 2)$ B. $(-2, 2)$ C. $(1, \infty)$ D. None
9	Question Image	
10	Question Image	A. $- \cot 4x + c$ B. $\cot 4x + c$ C. $\tan 4x + c$ D. $- \tan 4x + c$
11	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
12	The value of $\sin^{-1} 24/25$ is equal to	A. $\csc^{-1} 25/24$ B. $\sec^{-1} 24/25$ C. $2 \tan^{-1} 4/5$ D. $2\cos^{-1} 24/25$
13	Question Image	D. none of these
14	Question Image	A. $\sec 5x + c$ B. $- \sec 5x + c$
15	A conjunction of two statement p and q is true only if	A. p is true B. q is true C. Both p and q are true D. both p and q are false
16	The set (Z, +) forms a group	A. Forms a group w.r.t. addition B. Non commutative group w.r.t. multiplication C. Forms a group w.r.t multiplication D. Doesn't form a group

17	$4^{1+x} + 4^{1-x} = 10$ is called	A. Reciprocal equation B. Exponential equation C. Radical equation D. None of these
18	The set {1, -1, 1, -1}, form a group under	A. Addition B. Multiplication C. Subtraction D. None
19	A function from A to B is denoted by	A. f: A→ B B. f: B → A C. f: → A :B D. f → A→ B
20	Question Image	