Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	For non-trival solution |A| is	A. A = 0 B. A^t = 0 C. |A| = 0 D. None of these
3	Question Image	A. (-1, 2) B. (-1, 1) C. (1, 2) D. {-1}
4	The 6th term of an arithmetic sequence whose first term is 3 and common difference in zero is	A. 18 B. 6 C. 3 D. 0
5	The area of the circle centred at (1,2) and passing through (4,6) is	A. 30 πsq.units B. 5π sq.units C. 15π sq.units D. 25π sq.units
6	Question Image	
7	Question Image	A. Principle of equality of fractions B. Rule for product of fractions C. Golden rule for fractions D. Rule for quotient of fractions
8	The general solution of tan 3x = 1 is	
9	Question Image	
10	Any recurring decimal represents a	A. Irrational no B. Integer C. Rational no D. None of these
11	$\forall a,b \in R$, ab = be is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
12	The sum of first n even number is	A. n2 B. n(n+1) C. n+1 D. n+2
13	Question Image	A. Square matrix B. Row matrix C. Symmetric matrix D. Null matrix
14	The positive value of k for which the equation $x2 + kx + 64 = 0$ has one of the roots 0	A. 4 B. 64 C. 8 D. All values of k
15	The approximate percentage increase in the volume of a cube if the length of its each edge changes from 5 to 5.02 is	A. 1.2% B. 1.5% C. 0.16% D. 100.16%
16	An improper rational fraction can be reduced by division to a	A. Proper fraction B. Polynomial C. mixed form
17	The arbitrary constants involving in the solution can be determined by the given conditions. Such conditions are called	A. Boundaries B. Variable separable C. Initial values D. None
18	Which is not included in the domain of $cos^{-1}x$	A. 0 B. 1

Which is not included in the domain of sec⁻¹.

C. -1
D. 2

19	E-radius corresponding to < A is	

| 20 | Question Image | A. 2x
B. $3x^2$
C. 1
D. 0 |