Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An A.P. consists of n(odd terms) and its middle term is m. then the sum of the A.P. is	A. 2 mn B. 1/2 mn C. mn D. mn²
2	The inclination of a line parallel to x-axis is	
3	Cot 45° = _____	
4	If the lines 2x-3y-1=0,3x-y-5=0 and 3x+py+8=0 meet at a unique point then	A. p = -14 B. p = -1 C. p =0 D. p=12
5	Composition of functions is	A. Non-commutative (fg ≠ gf) B. non-associative [8(fh) ≠(8f)h] C. Commutative (fg = gf) D. f of-1≠ 1
6	E-radius corresponding to < B is	
7	If in the expansion of $(1+x)^n$, co-efficients of 2nd, 3rd and 4th terms are in A.P., then x=	A. 4 B. 5 C. 6 D. 7
8	Period of sin x is	
9	Question Image	
10	Question Image	
11	If $2x^{1/3}+ 2x^{-1/3}= 5$, then x is equal to	A. 1 or -1 B. 2 or 1/2 C. 8 or 1/8 D. 4 or 1/4
12	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
13	If A is skew Hermitian Matrix then which of the following is not skew Hermitian matrix	A. A2 B. A5 C. A3 D. A7
14	What is the value of cos-1(1/2)?	A. π/3 B. π/4 C. 3π/2 D. π/6
15	Both the roots of the equation (x -b) (x - c) + (x -c) (x-a) +(x-a) (x-b) = 0 are always	A. Positive B. Negative C. Real D. None of these
16	Question Image	A. 5 B. 20 C. 9 D. 4
17	Question Image	A. Reflexive property B. Symmetric property C. Transitive property D. Additive property
18	Question Image	B. 1 C. 2 D. -2

19	If 0 = R, thenthe additive inverse of a is	A. 1/9 B. ^{1/-9} C. a D. -a
20	For each real number, there is a number which is its	A. Negative B. Possitive C. Opposite D. Similar