Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 7 C. 4 D. None of these
2	Question Image	
3	The vector k = [0,0,1] is called unit vector along:	A. x -axis B. y - axis C. z- axis D. None of these
4	Question Image	
5	Multiplicative inverse of "1" is	A. +- 1 B. 0 C. 1 D. None of these
6	Question Image	A. A⁻ B. A^t C. -A D. A
7	if the value of the sphere, $v = 4/3\pi r^2$, then the which of the following statement is true?	A. r is the function of v B. v is the function of π C. π is independent variable D. None of these
8	Every subset of a finite set is	A. Disjoint B. Null C. Finite D. Infinite
9	The set of natural is a semi group w.r.t	A. Addition B. Division C. Subtraction D. None of these
10	Some of two real numbers is also a real number , this property is called:	A. Commutative property w.r.t addition B. Closure property w.r.t. addition C. Associative property w.r.t. addition D. Distributive property w.r.t addition
11	Question Image	
12	The nth term of an A.P., is 12-4n. Its common difference is	A. 8 B. 4 C. 4 D. 16
13	What is the period of sin 2x/3 cos 4x=?	A. π B. 2π C. π/2 D. π/3
14	If S is a sample space and event set E =Φ then P(E) is	A. >0 B. 1 C. <1 D. 0
15	$\tan\theta/2$	
16	A = B if	D. A is equivalent to B
17	The proposition S(k+1) is true when _____ is true ∀K∈N	A. S(n) B. S(k) C. S(1) D. S(k-1)
18	Question Image	A. [0, 0, 0] B. [1, 0, 0] C. [0, 1, 0]

		C. [0, 1, 0]
		D. [0, 0, 1]
19	Rational number is a number which can be written as a terminating decimal fraction or a	A. Non-terminating decimal fraction B. Non-recurring C. Recurring decimal fraction D. a, b and c
20	For two vector a and b, a+b = _____	A. a b B. b+a C. b-a D. None