Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	x = _____ is in the solution of $2x + 3 \geq 0$	A. 1 B. -2 C. -3 D. -4
2	Name the property used in $100 + 0 = 100$	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
3	The general solution of $\tan 3x = 1$ is	
4	$2x = 3$ is a conditional equation it is true for	A. 2 B. 3 C. 3/2 D. 2/3
5	The set of complex numbers forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Subtraction
6	The null vector is regarded to be perpendicular to	A. Every vector B. In some cases C. Both a b D. None
7	Question Image	A. 0 B. 1 C. -1 D. none of these
8	In one hour the minute hand of a clock turns through	
9	$\int x/\sin^2 x \, dx$ is equal to:	A. $x \cot x + \ln|\sin x|$ B. $-x \cot x - \ln|\sin x|$ C. $x \cot x - \ln|\sin x|$ D. $x \tan x - \ln|\sec x|$
10	Question Image	
11	The latus rectum of the ellipse $5x^2 + 9y^2 = 45$ is	A. 10 / 3 B. 5 / 3 C. 3 / 5 D. 3 / 10
12	A function from X to Y is written as	B. f : X to Y D. f : Y to Y
13	The point _____ is in the solution of the inequality $2x - 3y > 5$	A. (1, -1) B. (2,2) C. (0,0) D. (3,0)
14	If x - 2 is a factor of $ax2 - 12x + a = 2a$, then a = _____	A. -5 B. 5 C. 0 D. 1
15	Question Image	
16	Question Image	
17	Empty set is	A. Not subset of every set B. Finite set C. Infinite set D. Not the member of real numbers
18	The position vector of any point in space is	
19	Question Image	A. $\cos 3x + c$ B. $-\cos 3x + c$
		A. a

20	Additive inverse of -a -b is	B. -a + b
		C. a - b
		D. a + b