Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The points A(3,1),B(-2,-3),C(2,2) are vertices of an (an)	A. Right triangle B. Equilateral triangle C. Isosceles triangle D. Scalene triangle
2	Question Image	B. a f(x) + c C. f(x) + a
3	In R, the additive identity is	A. 0 B. 1 C. -1 D. None
4	If the cone is cut by a plane perpendicular to the axis of the conec, then the section is a:	A. Circle B. ellipse C. hyperbola D. parabola
5	Tan 3x tan 2x-tan x is equal to	A. Tan x tan 2x tan 3x B. -tan x tan 2x tan 3x C. Tan x tan 2x - tan - tan x tan 3x - tan 2x tan 3x D. None of these
6	Question Image	D. None of these
7	Area bounded between the curve xy=2 and the lines x=1 and x=2	A. ln2 square units B. ln√2 square units C. ln4 square units D. Square units
8	Question Image	C. 1 D. 0
9	Question Image	A. 0 B. 1 C. -1 D. None of these
10	In the expansion of (x+y)n the coefficient of 5th and 12th terms are equal then n=	A. 12 B. n=14 C. 17 D. n=15
11	Question Image	
12	Question Image	
13	Question Image	
14	The roots of the equation 2^{2x}- 10.2^{x}+ 16 = 0 are	A. 2, 8 B. 1, 3 C. 1, 8 D. 2, 3
15	For any positive integer n	A. ABn = Bn A ⇔ AB = BA B. ABn = Bn A⇔ A,B are square matrices and AB = BA C. ABn = BnA⇔ A + B D. ABn = BnA ⇔ A and B are square matries
16	The additive inverse of 0 is	A. 1 B. -1 C. 0 D. Does not exist
17	Ifπ≤x≤2π, then cos-1 (cos x)=	A. cos x B. -x C. 1/x D. -x
18	If a_1, r are first term and the common ratio respectively then the sum of an infinite geometric series is	

19	u,v,wand u x (v.w) are	A. Equal B. Parallel C. Additive immense of each other D. Meaningless
20	Question Image	A. 3/8 B. 7/8 C. 1/8 D. None