Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The point R dividing externally the line joining the points P(x_1, y_1) and Q(x_2, y_2) in the ratio k_1: $k_2$has the coordinates	
2	x = _____ is in the solution of 2x + 3 < 0	A. 0 B. 2 C. -1 D. -2
3	Question Image	
4	Question Image	
5	If (0,4) and (0,2) are vertex and focus of the parabola respectively, the the equation of the parabola is:	A. x² = 4y -32 B. x² =8y -32 C. y³ = 16 x D. x2 + 8y =32
6	Three points whose position vector a,b,c are collinear	A. axb +b x c+ c x a = 0 B. a,b +b,c +c,a =0 C. a,|a xc| =0 D. a+b+c =0
7	What is the number of elements of the power set of {0, 1}	A. 1 B. 2 C. 3 D. 4
8	Question Image	
9	If the angle between two vectors with magnitude 6 and 2 is 60° when their scalar product is	A. 12 B. 6 C. 3 D. 0
10	A class contains nine boys and three girls, in how many ways can the teacher choose a committee of four?	A. 60 B. 460 C. 495 D. 272
11	For each natural number n, n (n+1) is	A. an even B. an odd C. multiple of 3 D. Irrational
12	The sum of all 2 digit number is	A. 4750 B. 3776 C. 4895 D. 4905
13	A quadratic equation in x is an equation that can be witten in the form	A. ax²+ b = 0 B. ax³ +b²+c=0 C. ax² +bx+c=0 D. ax³ +bx³+cx=0
14	The point _____ is in the solution of the inequality 2x - 3y < 4	A. (0, -2) B. (1, -3) C. (2, 2) D. (3, 0)
15	If (2, 3) is the mid point of (a, 3) and (5, b) then	A. a = 1 , b = -3 B. a = -1 , b = 3 C. a = 1 , b =3 D. a = -1 , b = -3
16	Question Image	C. ln f(x) + c D. f(x) - c
17	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these

18	Question Image	D. none of these
19	The 8th term of $(1+2x)^{-1/2}$ is	A. -221/16 x⁷ B. -225/18 x⁷ C. -407/9 x³ D. -429/16 x⁷
20	If uv= Projuv then	A. Uandvare parallel B. vis a unit vector C. Uis a unit vector D. Both b and c