Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. quadrant I B. quadrant II C. quadrant III D. quadrant IV
2	The largest possible domain of the function: $y=\sqrt{(x)}$ is:	A. (0 ,∞) B. 12 C. (3 , 12) D. (3 ,∞)
3	Range of cos x is _____	A. [-1, 1] B. R C. Negative real numbers D. R - { x | - 1 < x < 1}
4	The unit vector along y-axis is	D. none of these
5	If $\underline{u} = 2\underline{i} + p\underline{i} + 5\underline{k}$ and $\underline{v} = 3\underline{i} + \underline{i} + p\underline{k}$ are perpendicular , then p=	A. 1 B. 2 C. -1 D. -3
6	Question Image	
7	If a2 = b2 then	A. a = b B. a+b= 1 C. |a+b| =0 D. None
8	Question Image	
9	6 is	A. A prime integar B. An irrational number C. A rational number D. An odd integer
10	For every positive integers n 1+5+9+....+ (4n - 3) is	A. n(2n - 1) B. (2n - 1) C. n - 1 D. n
11	Two circles are said to be concentric if they have	A. same radius B. same chord C. same centre D. same diameter
12	Question Image	A. 36 B. 360 C. 24 D. 6
13	Question Image	C. 0 D. 1
14	Question Image	
15	One root of the equation cos x - x + 1/2 = 0 lies in the interval	
16	If y = eax sin bx and y2 - 2ay1 + (a2+b2) y=0 the for what values of a and b we have y2+10y1+34y =0	A. a = -10,b=34 B. a=-5,b=3 C. a=5,b=3 D. a=10,b=34
17	(2, 1) is in the solution of the inequality	A. 2x + y <u>></u> 7 B. x - y > 2 C. 3x + 5y < 6 D. 2x + y < 6
18	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y. If AB = 1, then the height h of the tower is given by	
19	Question Image	A. I quadrant B. II quadrant C. III quadrant

		D. IV quadrant
20	For any set B, BUB' is	A. Is set B B. Set B' C. Universal set D. None of these