

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The magnitude of vector a=i-3j+5k is:	A. 3 B. √35 C. √17 D. √35
3	Question Image	A. 15 B. 15 i C15 i D15
4	If one end of the diameter of the circle $2x^2 + 2y^2 - 8x - 4y = 2 = 0$ is (2,3), the other end is:	A. (2,1) B. (-2,1) C. (2,-1) D. (1,-1)
5	Question Image	A. (a + b)c = a . c + bc B. a + b = b + a C. (a + b) + c = a + (b + c) D. a(b+ c) = ab + ac
6	The sides of a right angled triangle are in A.P The ratio of sides is	A. 1:2:3 B. 3:4:5 C. 2:3:4 D. 5:8:3
7	Question Image	
8	3x + 4 = 0 is	A. not inequality B. equation C. identity D. inequality
9	Question Image	
10	Question Image	D. none of these
11	The mid point of the line segment joining the points (3,-1) and (-3,1) is	A. (3,-1) B. (0,0) C. (2,2) D. (4,4)
12	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix
13	The line y= 4x +c touches the hyperbola x2- y2 =1 if and only if	A. c = $\pm\sqrt{2}$ B. c =0 C. c= $\pm\sqrt{17}$ D. c= $\pm\sqrt{15}$
14	If $z1 = 2 + 6i$ and $z2 = 3 + 7i$ then which expression defines the product of $z1$ and $z2$	A. 36 +(-32)i B36+32i C. 6+(-11)i D. 0, +(-12)i
15	Question Image	
16	The value of sin 28°cos 17°+cos 28°sin 17°is	
17	The parabola $y^2 = x$ is symmetric about	A. x-axis B. y-axis C. Both x and y-axis D. The line y = x
18	A matrix with a single row is called a	A. Column matrix B. Row matrix C. Null matrix D. Identity matrix
		A. 1

B. sin 55° = 0.8192 sin 55° = 0.8192sin 70° = 0.5384sin 70°	19	Question Image	B. 0 C1 D. 2
	20	By expressing sin 125° in terms of trigonometrical ratios, answer will be	0.95em;">sin 65° = 0.9128 B. sin 55° = 0.8192 C. sin 70° = 0.5384