

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Projection of vector u along v is	A. v cosθ B. u cosθ C. v sinθ D. u sinθ
2	An integer is chosen at random from the number ranging from 1 to 50. the probability that the integer chosen is a multiple of 2 or 3 or 10 is	A. 3 / 10 B. 5 / 10 C. 7 / 10 D. 9 / 10
3	Which is an explicit function	A. y = x ² + 2x - 1 B. x ² + xy + y ² = 2 C. x ² + y ² = xy + 2 D. All are
4	If $y = \sin(ax + b)$, then fourth derivative of y with respect to $x = ax + b$	A. a ⁴ cos (ax + b) B. a ⁴ sin (ax + b) Ca ⁴ sin (ax + b) D. a ⁴ tan (ax + b)
5	Question Image	A. 0 B1 C. 1 D2
6	An ellipse slides between two lines at right angles to one another. The locus of its centre is :	A. a parabola B. an ellipse C. a circle D. a hyperbola
7	sec h x =	
8	If 4 6P_r = $^6P_{r+1}$, then r is equal to	A. 4 B. 3 C. 2 D. 1
9	If n is any positive integer then n! > n ² for	
10	The slope of the normal at $(4,3)$ to the circle $x^2+y^2=25$ is	A. 3/4 B3/4 C. 4/3 D4/3
11	45° =	
12	If x^2 - 7x + a has remainder 1 when divided by x + 1, then a =	A7 B. 7 C. 0 D. None of these
13	If $2x + y + \lambda = 0$ is normal to parabola $y2 = -8x, \lambda = $	A. 12 B. 8 C. 24 D24
14	Name the property used in 100 + 0 = 100	A. Additive inverse B. Multiplicative inverse C. Additive identity D. Multiplicative identity
15	A line joining two distinct points on a parabola is called a of the parabola.	A. Chord B. Tangent C. Lust rectum D. directrix
16	The square matrix A is skew-symmetric when At =	AB BC CA DD
		A. 3

17	Find a if 1 is a root of the equation $x^2 + ax + 2 = 0$	B3 C. 2 D. 0
18	The eccentricity of the conic $9x^2$ - $16y^2$ = 144 is	A. 4/5 B. 5/4 C. 4/3 D. 3/4
19	QUQ'	
20	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these