

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The directrix of y2 =-4ax is	A. y =-a B. y = a C. x = a D. x = -a
2	For different values of k equation 4x+5y =k represents	A. Parallel lines B. Lines parallel to x -axis C. Perpendicular lines D. Lines parallel to y -axis
3	Question Image	
4	For $f(x) = x^2 + px + 1$, if $f(3) = 3$ then $P =$	A. 3/7 B2/5 C7/5 D7/3
5	Question Image	
6	The solution set of x^2 - $5x + 6 = 0$ is	A. {1, 3} B. {2, 3} C. {1, 2} D. None of these
7	Question Image	A. perpendicular vectors B. concurrent vectors C. parallel vectors D. none of these
8	Any recurring decimal represents a	A. Irrational no B. Integer C. Rational no D. None of these
9	The velocity of a particle moving along a straight line is given by $v = 3t + t^2$. The acceleration of the particle after 4 seconds from the start is	A. 4 B. 11 C. 26 D. None
10	If $f(x) = x^3 - 2x^2 + 4x - 1$, then $f(-2) = ?$	A. 0 B25 C. 5 D. 45
11	Question Image	A. 0 B2 C. 1 D. 4
12	w ¹ =	A. 0 B. 1 C. w D. w ²
13	Question Image	A. sec 3x + c B cosec 3x + c
14	The period of cos(7x-5) is	A. π/7 B. 7π/2 C. π/2 D. 2π/7
15	The point is in the solution of the inequality 4x - 3y < 2	A. (0,1) B. (2,1) C. (2,2) D. (3,3)
16	The quadratic equation 8 sec2θ - 6 secθ +1 =0 has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
17	The transport of a rectangular matrix is a	A. Square matrix B. Rectangular matrix C. Row matrix

		D. Column matrix
8	The longer side of a parallelogram is 10 cm and the shorter is 6 cm. If the longer diagonal makes an angles 30° with the longer side, the length of the longer diagonal is	
19	What is the period of cos 6x =?	A. π/2 B. π/3 C. π/4 D. π
20	If the intersection of two sets is non-empty, but either is a subset of other are called	A. Disjoint sets B. Over lapping C. Equal sets D. None of these