

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	If $2x + y + \lambda = 0$ is normal to parabola $y^2 = -8x$, $\lambda =$ _____	A. 12 B. 8 C. 24 D. -24
2	Question Image	
3	If a particle moves according to the law $s = t^3 - t^2$, then its velocity at time $t = 1.5$ is	A. 9/2 B. 15/4 C. 5 D. None
4	Distance between A(3, 8), B(5, 6) is	
5	$A = B$ if	D. A is equivalent to B
6	A committee consists of 9 experts taken from three institutions A, B, and C, of which 2 are from A, 3 from B and 4 from C. If three experts resign, then the probability that they belong to different institutions is	A. 1 / 729 B. 1 / 24 C. 1 / 21 D. 2 / 7
7	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
8	Roots of the equation $x^2 + 2x + 3 = 0$ are	A. Real and equal B. Real and distinct C. Complex D. None of these
9	Question Image	
10	Question Image	D. none of these
11	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
12	The transpose of a row matrix is a _____	A. Zero matrix B. Diagonal matrix C. Column matrix D. Row matrix
13	The total cost of 2 apples and 3 oranges is \$1.70, which of the following is true	A. The cost of one apple B. The cost of one orange C. Both have equal cost per item D. Cost of each single item can not be determined
14	If C is the mid point of AB and P is any point outside AB, then	
15	$\tan^{-1} x =$ _____	
16	$i^{101} =$	A. i B. $i^{>2}$ C. -i D. -1
17	The mid point of the line joining the points P(x_1, y_1) and Q(x_2, y_2) is	
18	$\tan(-135^\circ) =$ _____ θ	A. 0 B. 1 C. 2 D. 3
19	The sum of all even numbers less than 100 is	A. 2450 B. 2352 C. 2272 D. 2468
		A. equation B. ...

- B. identity
 - C. inequality
 - D. none of these
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