

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	B. $6x + 2 + c$ C. $6x + x^{sup>2</sup>+ c}$ D. $6x^{sup>3</sup>+ x^{sup>2</sup>+ x}$
2	A card is drawn from a pack of cards numbered 1 to 52, the probability that the number on the card is a perfect square is	A. $1/13$ B. $2/13$ C. $7/52$ D. None of these
3	Range of $\cot\theta$ is	A. (+∞to -∞) B. (-1 to +1) C. (-5 to +5) D. Set of even numbers only
4	The root of the quadratic equation are	A. 3 B. 2 C. 1 D. 4
5	Let A and B be two sets. If every element of A is also an element of B then	
6	If $a > 0, b > 0, c > 0$ then the roots of the equation $ax^2 + bx + c = 0$ are	A. Real and negative B. Non-real with negative real parts C. Real and positive D. Nothing can be said
7	${}^nC_2 =$ exists when n is _____	
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
9	The intercepts of the plane $2x - 3y + 4z = 12$ on the co-ordinate axes are given by	A. 2, -3, 4 B. 6, -4, -3 C. 6, -4, 3 D. 3, -2, 1.5
10	the latus rectum of the parabola $x^2 = -4ay$ is:	A. $x = a$ B. $y = -a$ C. $x = -a$ D. $y = 0$
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	Which of the following is a quadrantal angle	A. 100° B. 200° C. 170° D. 270°
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
14	The projections of a line segment on x, y, z axes are 12, 4, 3. The length and the direction cosines of the line segment are	A. Lies between 4 and 7 B. Lies between 5 and 9
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	C. Has no value between 4 and 7 D. Has no value between 5 and 9
16	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
17	$n!/(n-1)!$	A. n B. n! C. (n-1)!

D. 0!

18 Which element is the additive inverse of (a,b) in Complex numbers

- A. $(a,0)$
- B. $(0,b)$
- C. (a,b)
- D. $(-a,-b)$

19 

20 

- A. 1
- B. -1