

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	An equation of the form $ax + by = k$ is homogeneous linear equation when	A. $b = 0, a = 0$ B. $a = 0, b \neq 0$ C. $b = -0, a \neq 0$ D. $a \neq 0, b \neq 0, k = 0$
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Singular B. Non-singular C. Adjoint D. None of above
4	The equation of the circle with centre $(-h, -k)$ and radius r is	A. $(x + h)^2 + (y + k)^2 = r^2$ B. $(x + h)^2 + (y - k)^2 = r^2$ C. $(x - h)^2 + (y + k)^2 = r^2$ D. $(x - h)^2 + (y - k)^2 = r^2$
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	0 (zero) is	A. An irrational number B. A rational number C. A negative integer D. A positive number
7	The middle term of the expansion $(1 + 2x)^6$ is _____	A. 1st term B. 4th term C. 2nd term D. 5th term
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. Additive property in R B. Multiplication property in R C. Cancellation property in R D. Distribution property in R
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	The equation of the circle with centre $(-3, 5)$ and radius 7 is	A. $(x - 3)^2 + (y + 5)^2 = 7^2$ B. $(x - 3)^2 + (y - 5)^2 = 7^2$ C. $(x + 3)^2 + (y + 5)^2 = 7^2$ D. $(x + 3)^2 + (y - 5)^2 = 7^2$
11	The modulus of $12 - 5i$ is:	A. 7 B. 13 C. $\sqrt{7}$ D. 119
12	The positive real number which is the measure of the length of a vector is called the	A. Unit vector B. Modulus C. Inverse D. None of these
13	For any two sets A and, $A \subseteq B$ if	A. $x \in A \Rightarrow x \in B$ B. $x \notin A \Rightarrow x \notin B$ C. $x \in A \Rightarrow x \notin B$ D. None of these
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	The circle $(x - 2)^2 + (y + 3)^2 = 4$ is not concentric with the circle	A. $(x - 2)^2 + (y + 3)^2 = 9$ B. $(x + 2)^2 + (y - 3)^2 = 4$ C. $(x + 2)^2 + (y - 3)^2 = 8$ D. $(x - 2)^2 + (y + 3)^2 = 5$

16	Question Image	D. none of these
17	The vertex of the graph of the quadratic function $f(x) = -x^2 + 6x + 1$, is	A. (-3, 10) B. (-3, -10) C. (3, 10) D. (3, -10)
18	Question Image	
19	If $-1 < x < 0$, which of the following statements must be true?	A. $x < x^2 < x^3$ B. $x < x^3 < x^2$ C. $x^2 < x^3 < x$ D. $x^2 < x < x^3$
20	$n(n - 1)(n - 2) \dots (n - r + 1) =$ _____	