Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The central angle of an arc of a circle whose length is equal to the radius of the circle is called the	A. degree B. radian C. minute D. second
3	A second degree equation in which coefficients of $x^2$and y^2 are equal and there is no product therm xy represents:	A. a parabola B. a circle C. an ellipse D. a pair of lines
4	Two circle $x^2 + y^2+2x - 8 = 0$ and $x^2 + y^2 -6 + 6x -46 =0$:	A. touch internally B. do not intersect C. touch externally D. None of these
5	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	
6	The general term of a sequence is denoted by	A. a₁ B. a_n C. n D. s_n
7	$\forall a,b,c \in R$, $a > b \wedge b > c \Rightarrow a > c$ is	A. Trichotomy property B. Transitive property C. Symmetric property D. Additive property
8	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
9	Question Image	
10	Question Image	
11	Question Image	
12	Question Image	
13	The value of x, and y, when $(x + iy)^2 = 5 + 4i$	A. X = 2, y = 1 B. X = -2, y = 1 C. X = 2, y = -1 D. X = 2, y = 2
14	The set {1, -1, i, -i}	A. Form a group w.r.t addition B. Form a group w.r.t multiplication C. Does not form a group w.r.t multiplication D. Not closed under multiplication
15	The second degree equation 2x2 -xy+ 5x -2y +2 =0 represents	A. Circle B. Hyperbola C. Ellipse D. Pair of straight lines
16	Question Image	
17	Name the property used in a (b-c) = ab - ac	A. commutative property of multiplication B. distributive property of multiplication C. associative property of multiplication D. multiplicative inverse
18	Question Image	A. 2 B. 6
		A. General term

19	The difference of two consecutive terms of an A.P. is called _____	B. Common ratio C. Common difference D. None of these
20	The obtuse angle between lines = -2 and y = x +2 is	A. 120° B. 135° C. 150° D. 140°