Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	The polar form of complex number $x \neq I\,y =$	A. r cos θ+ r sin θ B. r cos θ+ is sin θ C. cos θ+ r sin θ D. i cos θ+ i sin θ
3	Name the property used in 4.1 + (-4.1) = 0	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
4	Question Image	A. 8 B. 9 C. 10 D. 11
5	The square roots of negative numbers is called	A. Real no B. Complex no C. Positive no D. Negative no
6	5th term of a G.P. is 2, then the product of first 9 terms is	A. 256 B. 128 C. 512 D. None of these
7	If n is odd then the middle terms in the expansion of $(a + x)^n$ are	
8	Question Image	D. all
9	Question Image	A. -sin<i>θ</i> B. cos<i>θ</i> C. sin<i>θ</i> D. -cos<i>θ</i>
10	Question Image	
11	Six boys and 3 girls are to be seated at random, in a row, for a photograph. The probability that no two girls will sit together is	A. 1/12 B. 1/6 C. 5/12 D. 7/12
12	Question Image	
13	Question Image	
14	Given X,Y are any two sets such that number of elements in set X = 28, number of elements in set Y = 28, and number of elements in set X∪Y = 54, then number of elements in set X ∩ Y =	A. 4 B. 3 C. 2 D. 1
15	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

16	Question Image	A. y/x B. x/y C. y/z D. None
17	$1+3x+6x^2+10x^3+\ldots=$	A. $(1+x)-3$ B. $(1-x)-2$ C. $(1-x)-3$ D. $(1+x)-2$
18	Question Image	
19	Question Image	
20	Question Image	