


Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	If $B \subseteq A$, then complement of B in A is = -----	A. $A-B$ B. $A \cap B$ C. $B-A$ D. $A \cup B$
3	if one root of the equation $ix^2 - 2(i+1)x + (2-i) = 0$ is $2-i$ then the other root is	A. $-i$ B. $2+i$ C. i D. $2-i$
4	If distance of (a,b) from origin is 5 then	A. $a^2 + b^2 = 5$ B. $a = 5$ C. $b = 5$
5	The line $y = mx + 1$ is tangent to the parabola $y^2 = 4x$ if	A. $m=1$ B. $m=2$ C. $m=3$ D. $m=4$
6	If $x^3 + 4x^2 - 2x + 5$ is divided by $x - 1$, then the remainder is	A. 8 B. 6 C. 4 D. None of these
7	Question Image	A. c/a B. $-c/a$ C. b/a D. $-b/a$
8	Question Image	
9	Sum of n terms of a geometric series if $ r < 1$ is	
10	The value of k ($k > 0$) for which the equation $x^2 + kx + 64 = 0$ and $x^2 - 8x + k = 0$ both will have real roots is	A. 8 B. -16 C. -64 D. 16
11	$f(x) = x^3$ is:	A. an odd function B. an even function C. an implicit function D. a quadratic function
12	Question Image	
13	Question Image	
14	For two events A and B if $P(A) = P(A/B) = 1/4$ and $P(B/A) = 1/2$, then	A. A is sub-event of B B. A and B are mutually exclusive C. A and B are independent and $P(A/B) = 3/4$ D. None of these
15	When a selection of object is made without paying regard to the order of selection, it is called	A. Sequence B. Series C. Combination D. Permutation
16	The perpendicular bisector of any chord of a circle	A. Passes through the centre of the circle B. Does not pass through the centre of the circle C. May or may not pass through the centre of the circle D. None of these
17	Question Image	D. none of these
18	Question Image	A. 1 B. 0

18		C. -1 D. 2
19	Both the roots of the equation $(x-b)(x-c) + (x-c)(x-a) + (x-a)(x-b) = 0$ are always	A. Positive B. Negative C. Real D. None of these
20	If A is a skew-symmetric matrix of order n and P, any square matrix of order n, prove that P^TAP is	A. Skew-symmetric B. Symmetric C. Null D. Diagonal