Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	
2	x is a member of the set [-1, 0, 3, 5] y is a member of the set {-2, 1, 2, 4} which is possible?	A. x - y = -6 B. x - y < -6 C. x - y > -6 D. None
3	The set of first elements of the ordered pairs in a relation is called its	A. domain B. range C. relation D. function
4	A line segment whose end points lie on a circle is called	A. The secant of the circle B. The arc of the circle C. The chord of the circle D. The circumference of the circle
5	Question Image	D. none of these
6	If $n \in Z+$ then$(a+x)n$ is a/an	A. Finite series B. Convergent series C. Infinite series D. Divergent series
7	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
8	The roots of the equation $ax^2 + bx + c = 0$ are complex/imaginary if	A. $b^2 - 4ac$ < 0 B. $b^2 - 4ac$ = 0 C. $b^2 - 4ac$ > 0 D. None of these
9	If $ax + bx + c = 0$ is satisfied by every value of x,then	A. b = 0,c = 0 B. c = 0 C. b = 0 D. a = b = c = 0
10	Which term of the A.P 5,8,11,24.............is 320	A. 104th B. 106th C. 105th D. 64th
11	If a = {2m/2m < 9 ,m€ p} , the (n A) =	A. {2,3,4,5,6,7,8} B. {2,4,6,8............16} C. { 4, 6} D. {2,3,5,7}
12	i =	
13	Number of ways of writing the letters of WORD taken all at a time is	A. 24 B. 4 C. 12 D. 6
14	$\cos^{-1}(\cos x) =$	A. x B. cos x C. x = 1/x D. $\cos^{-2} x$
15	Question Image	A. -1 B. 1 C. 2 D. -2
16	Question Image	D. none of these
17	$(a + bi) - c (c + di) =$	A. (a +b) = (c +d) B. (a +c) + i(b +d) C. (a -c) + (c -d)i D. (a -c) +(b -d) i

18	If eccentricity of ellipse becomes zero then it takes the form of	A. A parabola B. A circle C. A straight line D. None of these
19	The quadratic equation 8 sec2θ - 6 secθ +1 =0 has	A. Infinitely many roots B. Exactly two roots C. Exactly four roots D. No roots
20	Domain of 3 sin x is _____	A. [-3, 3] B. R C. Positive real numbers D. None of these