Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Which of the following has the same value as i^{113}?	A. i B. -1 C. -i D. 1
2	Question Image	A. Singleton set B. A set with two points C. Empty set D. None of these
3	The square root of 2i - 20i is	A. ±(5 - 2i) B. ±(5+ 2i) C. (5 - 2i) D. None of these
4	Question Image	A. are real no B. both are not real C. are imaginary no D. both are imaginary
5	sn (2sin-10.8)	A. 0.56 B. 0.69 C. -0.16 D. 0.96
6	The Principal value of sin-1 (-1/1/2)	A. π/2<o:p></o:p> B. -π/2<o:p></o:p> C. π<o:p></o:p> D. -π<o:p></o:p>
7	A square matrix A for which A^t= -A is called a	A. Column matrix B. Symmetric matrix C. Skew-symmetric matrix D. Row matrix
8	The coordinates of the point that divides the join of A(-6,3) and B(5, -2) in the ratio 2:3 internally	
9	Question Image	
10	Question Image	A. x³- x²+ x + c B. 6x - 2 + c C. x³- 2x + c
11	The sum of co-efficient in $(1+x-3x^2)^{4163}$is	A. 0 B. 1 C. -1 D. None
12	Which of the following function form 1 to itself are bi-jective	A. F(x) = x + 3 B. F(x) = x⁵ C. F(x) = 3x + 2 D. F(x) = x²+ x
13	The solution set of sin x + cos x = 0 is	
14	The constant distance of all points of the circle from its centre is called the	A. radius of the circle B. secant of the circle C. chord of the circle D. diameter of the circle
15	If n(X) = 18, n(X∩Y) = 7, n(X∪ Y) = 40 then n(Y) =	A. 1 B. 12 C. 5 D. 29
16	If n is a negative integer n! is	A. 1 B. 0 C. Unique

		D. Not defined
17	The set of complex numbers forms	A. Commutative group w.r.t addition B. Commutative group w.r.t multiplication C. Commutative group w.r.t division D. Non commutative group w.r.t addition
18	Question Image	
19	1.4142135... is _____	A. A natural number B. A rational number C. A prime number D. An irrational number
20	The complement of set A relative to universal set U is the set	A. $\{x / x \in A \wedge x \in U\}$ B. $\{x / x \notin A \wedge x \in U\}$ C. $\{x / x \in A$ and $x \notin U\}$ D. A-U