Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	For an arithmetic series to be convergent it is necessary that the series has	A. Finite terms B. d<0 C. Infinite terms D. None of these
2	Question Image	A. 0 B. U C. u/2 D. log u
3	The equation $(\cos p - 1)x^2 + x(\cos p) + \sin p = 0$ in the variable x, has real roots, then p can take any value in the interval	A. (0, 2<i>π</i>) B. (-<i>π</i>, -0) C. (0,<i>π</i>) D. None of these
4	Question Image	A. 0 B. 1 C. 2 D. 4
5	For a set A, $A \cup A^c = $ --------------------	A. A B. ∅ C. A^c D. U
6	Question Image	
7	If $Z_1 = 1+ i$, $Z_2 = 2+3i$, then $|Z_1 - Z_2| = ?$	A. $\sqrt{5}$ B. $\sqrt{7}$ C. -1-2i D. $\sqrt{3}$
8	E-radius corresponding to < A is	
9	The distance between the points (2,3) and (3,2) is	A. 5 C. 2 D. 10
10	The roots of $px^2 - (p-q)x - q = 0$ are	A. equal B. Irrational C. Rational D. Imaginary
11	The mid point of the line joining the points $P(x_1, y_1)$ and $Q(x_2, y_2)$ is	
12	The domain and range of a trigonometric function can be allocate by their	A. graph B. Continuity C. Discontinuity D. Periods
13	Question Image	A. G.P B. H.P. C. A.P. D. No particular sequence
14	If d_1 is the distance between (0,0) and (1,2) and d_2 is the distance between (0,0) and (2,1) then	A. $d_1 \geq d_2$ B. $d_1 < d_2$ C. $d_1 > d_2$ D. none of these

15	The three noncollinear points through which a circle passe are known, then we can find the:	A. Variables x and y B. Value of x and c C. three constants f,g and c D. inverse of the circle
16	Question Image	
17	Question Image	
18	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these
19	If $|a \times b|2 + (a,b)2 = $ _____	A. $|a|2 + |b|2$ B. $|a|2- |b|2$ C. $|a|2|b|2$ D. None
20	Question Image	A. Hermitian matrix B. Skew-hermitian matrix C. Symmetric matrix D. Identity matrix