

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. -1 C. 0 D. None of these
2	Question Image	A. 0 B. 1
3	The sum of first twenty odd integers in A.P is	A. 400 B. 397 C. 404 D. 408
4	$(a + bi) - c (c + di) =$	A. $(a + b) = (c + d)$ B. $(a + c) + i(b + d)$ C. $(a - c) + (c - d)i$ D. $(a - c) + (b - d)i$
5	The sum of all 2 digit number is	A. 4750 B. 3776 C. 4895 D. 4905
6	The remove the term involving xy , from $7x^2 - 6\sqrt{3}xy + 13y^2 - 16 = 0$ the angel of rotation is	A. $\theta = 30^\circ$ B. $\theta = 45^\circ$ C. $\theta = 60^\circ$ D. $\theta = 75^\circ$
7	If A(a,b) lies on $3x + 2y = 13$ and point B(b,a) lies on $x - y = 5$ then equation of AB is	A. $x - y = 5$ B. $x + y = -5$ C. $x - y = -5$ D. $5x + 5y = 21$
8	In ΔABC if $\gamma = 90^\circ$ then the Pythagoras theorem is	A. $b^2 + c^2 = a^2$ B. $a^2 + b^2 = c^2$ C. $a^2 + c^2 = b^2$ D. None of these
9	There are n seats round a table numbered 1, 2, 3 n . The number of ways in which m person can take seats is	A. nP_m B. ${}^nC_m \times (m - 1)!$ C. ${}^{n-1}P_m$ D. None of these
10	$i^{101} =$	A. i B. i^2 C. $-i$ D. -1
11	Question Image	
12	The synthetic division method is only used to divide a polynomial by	A. quadratic equation B. binomial C. linear equation D. monomial
13	The upper $3/4$ the portion of a vertical pole subtends an angle $\tan^{-1} 3/5$ at a point in the horizontal plane through its foot and at a distance 40 m from the foot. A possible height of the vertical pole is	A. 20 m B. 40 m C. 60 m D. 80 m
14	If A is a non singular matrix then $A^{-1} =$ _____	
15	The period of $\operatorname{cosec} 10x$ is _____	
16	Question Image	A. $2x \cos x^2$ B. $-2x \cos x \sin x$ C. $2x \sin x^2$ D. $-\sin x^2$
17	The graph of the linear equation of the form $ax + by = c$ is a line which divided the plane into:	A. Two similar regions B. Two disjoint regions C. Four equal parts D. One region

18

19

20 Let A and B be two sets. If every element of A is also an element of B then
