Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The centre of the circle x2+y2 -2fx-2gy+x=0 is	A. (-g,-f) B. (g,f) C. (f,g) D. (-f,-g)
2	For non-trival solution |A| is	A. non zero B. A = 0 C. |A| = 0 D. At = 0
3	The set {-1, 1} is closed under the binary operation of	A. Addition B. Multiplication C. Subtraction D. Division
4	If y=f(x) is a function then y is called	A. dependent variable B. independent variable C. constant D. none of these
5	The set {x +iy / x, y ∈ Q} forms a group under the binary operation of	A. Addition B. Multiplication C. Division D. Both addition and multiplication
6	Question Image	B. A C. A' D. U
7	2x + 3y > 4 is a linear inequality in	A. one variable B. two variables C. three variables D. none of these
8	Question Image	A. 0 B. 1
9	A circle passing through the vertices of any triangle is called	A. Circumcirle B. Incircle C. Escribed circle D. Unit circle
10	The transpose of a zero matrix is a _____	A. Column matrix B. Zero matrix C. Row matrix D. Scalar matrix
11	$\tan^{-1}(1/4) + \tan^{-1}(2/9)$ is equal to	A. $1/2 \cos^{-1}(3/5)$ B. $1/2 \sin^{-1}(3/5)$ C. $1/2 \tan^{-1}(3/5)$ D. $\tan^{-1}1/2$
12	Question Image	A. sin x + c B. -sin x + c C. cos x + c D. -cos x + c
13	The no of term is the expansion of (a+x)n-1 is	A. n+1 B. n-1 C. n D. n-2
14	Question Image	
15	Let a_1, a_2, a_3, a_4 and a_5 be such that a_1, a_2, and a_3 are in A.P., a_2, a_3 and a_4 are in G.P and a_3, a_4 and a_5 are in H.P. Then, a_1, a_3 and a_5 are in	A. G.P. B. A.P. C. H.P. D. None of these
16	The angle between the vectors $\underline{u}$ =2i - $\underline{i}$ + $\underline{k}$ and $\underline{v}$ = -i + $\underline{i}$ is:	A. 3π/2 B. 2π/3 C. 5π/6 D. π/3

17	1/3 is a decimal	A. Recurring B. Terminating C. Non-terminating D. None of the above
18	Question Image	
19	Question Image	A. 1/2 B. 2 C. 1/4 D. 4
20	Group of none-singular matrices under multiplication is	A. None-Abelian group B. Semi group C. Abelian group D. None of these