Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The set of all antiderivaties of f(= ∫f(x)dx) is the	A. Definite integral **B. Indefinite integral** C. Integral D. Area
2	Question Image	A. At B. -A **C. A** D. A-1
3	$\cos(\alpha+\beta) + \cos(\alpha-\beta) =$	A. $4\cos\alpha\cos\beta$ **B. $2\cos\alpha\cos\beta$** C. $2\sin\alpha\sin\beta$ D. $2\sin\alpha\cos\beta$
4	If there are m rows and n columns in a matrix then its order is	**A. m x n** B. m x m C. n x n D. n x m
5	The solution set of the equation 1 + Cos x = 0 is _____	D. none of these
6	Consider the equation $px^2 + qx + r = 0$ where p,q,r are real The roots are equal in magnitude but opposite in sign when	A. q = 0, r = 0, p ≠ 0 B. p = 0, qr ≠ 0 C. r = 0, pq ≠ 0 **D. q = 0, pq ≠ 0**
7	The general value of θ satisfying the equation $2\sin^2\theta - 3\sin\theta - 2 = 0$ is	
8	If the roots of $x^2 + ax + b = 0$ are non-real, then for all real x, $x^2 + ax + b$ is	A. Negative **B. Positive** C. Zero D. Nothing can be said
9	If a = 2i +2j, b= 3i -j and c=4i +5j, the 3b -a-2c =	**A. -i -15j** B. i-15j C. i-3j D. None of these
10	The longer side of a parallelogram is 10 cm and the shorter is 6 cm. If the longer diagonal makes an angles 30° with the longer side, the length of the longer diagonal is	
11	120° degrees are equal to how many radians?	
12	Question Image	
13	π is _____	A. A complex number B. A rational number C. A natural number **D. An irrational number**
14	A and B be two square matrices and if their inverse exist, the $(AB)^{-1}=$	A. $A^{-1}B^{-1}$ B. AB^{-1} C. $A^{-1}B$ **D. $B^{-1}A^{-1}$**
15	$\csc(-\pi/2) =$ _____ ;	A. 0 **B. 1** C. -1 D. Undefined

16	The domain of the function y = sin x , is	A. -π/2≤ x≤ π/2 B. π/ ≤ x≤ π C. -2π ≤ x≤ 2π D. -1 ≤ x≤ 1
17	If x is an image of y under the function f. This can be written as	A. y = f(x) B. f(x) = 0 C. x = f(y) D. f(y) =0
18	Question Image	
19	Question Image	A. 0 B. 1 C. 1/2
20	Question Image	