

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	If $1 + \cos x = 0$, then $x =$	
2	The value of the polynomial $3x^3 + 4x^2 - 5x + 4$ at $x = -1$ is	A. 12 B. 1 C. 10 D10
3	Question Image	
4	The number of ways in which we can courier 5 packets to 10 cities is	A. 2 x 5 ⁰ B. 5 ¹⁰ C. 10 ⁵ D. 2 ¹⁰
5	Which of the following integrals can be evaluated	
6	Question Image	A. 15 B. 15 i C15 i D15
7	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
8	If $-1 < x < 0$, which of the following statements must be true?	A. x < x ² < x ³ B. x < x ³ < x ² C. x ² < x ³ < x ³ < x ³ < x ³ < x 5< x 8%lt; x 9< x < x ³ < x < x ³
9	Question Image	A. Unit matrix B. Diagonal matrix C. Nilpotent matrix D. Zero matrix
10	The equation of the normal to the circle $x^2 + y^2 = 25$ at(4, 3) is	A. $3x - 4y = 0$ B. $3x - 4y = 5$ C. $4x + 3y = 5$ D. $4x + 3y = 25$
11	Which is not a half plane	A. ax + by < c B. ax + by > c C. Both A and B D. None
12	Question Image	A. (0, e) B. (0, 1) D. None
13	Question Image	A. Tan x B. X C x
14	If A and B are matrices such that AB=BA=I then	A. <div>A and B are multiplicative inverse of each other</div> B. <div>A and B are additive inverses of each other</div> C A and B are singular matrices D. A and B are equal
15	Question Image	A. A < G < H B. A > G > H C. A < G > H D. A > G < H
16	The common difference of the sequence 7,4,1, is	A. 1 B3 C. 5 D. 0

17	If $f_1(x)$ and $f_2(x)$ are any two anti derivatives of a function F (x), then the value of $f_1(x)$ - $f_2(x)$ =	A. A variable B. A constant C. undefined D. infinity
18	Question Image	A. 15 B. 60 C. 90 D. 20
9	Question Image	
20	The direction cosines of y-axis are	A. 1,0,0 B. 0,1,0 C. 0,0,1 D. 1,1,1