Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The measure of the acute angle between the lines represented by $x^2 - xy - 6y^2 = 0$ is	A. 120° B. 30° C. 130° D. 45°
2	Question Image	A. Evert element of A is in B B. Every element of B is in A C. Every element of A is in B' D. Every element of A is in A
3	Which is in the solution set of $4x - 3y < 2$	A. (3, 0) B. (4, 1) C. (1, 3) D. None
4	Question Image	A. <i style="text-align: center;">π / 3</i> B. <i style="text-align: center;">π / 4</i> C. <i style="text-align: center;">π / 6</i> D. 0
5	Question Image	A. Associate law of addition B. Commutative law of addition C. Additive identity D. Closure law of addition
6	An open sentence formed by using the sign of equality "=" is called	A. Equation B. In equation C. True sentence D. False sentence
7	Question Image	
8	Two tangents drawn from (2,3) to the circle $x^2+y^2 = 9$ are	A. Real and distinct B. Imaginary C. Real and coincident D. None of these
9	An A.P., a G.P. and a H.P. have the same first and last terms and the same odd numbers of terms, the middle terms of the three series are in	A. A.P. B. G.P. C. H.P. D. None of these
10	The position vector of the point P(a, b, c) is	
11	Question Image	A. 1 B. 0 C. 3 D. -3
12	If $x^3 + ax^2 - a^2x - a^3$ is divided by $x + a$, then the remainder is	A. 0 B. a^3 C. $2a^3$ D. $-2a^3$
13	3, 6, 12,.... is	A. A.P B. G.P. C. H.P. D. None of these
14	Question Image	
15	The maximum value of Z = 3x+ 4y subjected to the constrains x+ y≤ 40,x+ 2y≤ 60, x≥ 0 and y≥ 0 is	A. 120 B. 100 C. 140 D. 160
16	The slope of the normal at the point $(at^2, 2at)$ of the parabola $y^2 = 4ax$ is	A. 1/t B. t C. -t D. -1/t

17	If A is an event then which of the following is true	A. P(A)<0 B. $0 \geq P(A) \leq 1$ C. P(A)>0 D. None
18	$\cos h^2 x + \sin h^2 x$	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
19	Question Image	
20	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true