Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. Addition B. Subtraction C. Multiplication D. None of these
2	The 7th term of $(3^8 + 6^4 x)^{11/4}$ is	A. -19217/3 x^6 B. 189/2 6^4x C. 2227/12 x^3 D. -19712/3 x^6
3	Range of y = sec x is	A. $-1 \leq y \leq 1$ B. $y \geq 1$ or $y \leq -1$ C. $y \leq 1$ or $y \geq -1$ D. $-\infty < y < +\infty$
4	The law of tangents is _____	
5	Question Image	
6	A function f(x) is said to be the periodic function if for all x in the domain of f, there exists a smallest positive number p such the f(x + p) = _____	A. f(p) B. f(x) C. f(o) D. None of these
7	What is the number of elements of the power set of { }	A. 0 B. 1 C. 2 D. 3
8	The line through the intersection of the lines x+ 2y+ 3= 0 : 3x +4y +7 =0 and making equal intercepts on the axes is	A. x+ y+ 1= 0 B. x+ y- 2= 0 C. x+ y+ 2= 0 D. 2x +y +2 =0
9	Question Image	
10	Question Image	
11	A person standing on the bank of a river finds that the angle of elevation of the top of a tower on the opposite bank is 45°. then which of the following statements is correct?	A. Breadth of the river is twice the height of the tower B. Breadth of the river an the height of the tower are the same C. Breadth of the river is half of the height of the tower D. None of these
12	There is no element common in	A. N and W B. E and W C. N and O D. Q and Q'
13	System of linear equations is inconsistent if	A. System has no solution B. System has one solution C. System has two solution D. None of above
14	sin 3a = _____ ;	A. 3sin a - 4sin3a B. 4sin a -3 sin3 a C. 3 cos3 a -cosa D. 4cos3 a - 3cos a
15	Question Image	A. 3 sec^2x B. 3 $sec^2$3x C. $sec^2$3x D. sec^2x
16	The tangents drawn from the point P to a circle are imaginary if	A. P is on the circle B. P is inside the circle C. P is outside the circle D. none of these
17	The function sine and Cosine have the closed internal as their range	A. [1, 0] B. [-1, 1] C. [0, 1] D. [-1, 0]

D. [-1, 2]

18	If a force F = 2i + j +3k acts at point (1,-2,2) of a body then the moment of F about a pint lying on the line of action of the force is	A. 5 B. Equal to the moment of the force about origin C. 0 D. Cannot be found
19	Question Image	A. $-2x \cos x^2$ B. $-2x^2 \sin x^2$ C. $-x^2 \sin x$ D. $-2x^2 \sin x^2$
20	Question Image	A. $1 + \tan^2 x + c$ B. $\tan x + c$ C. $-\tan x + c$ D. $\cot x + c$