

## ECAT Pre General Science Mathematics Chapter 19 Integration Online Test

Sr	Questions	Answers Choice
1	Question Image	
2	Question Image	
3	The integral of 3x <sup>5</sup> dx is:	A. 15 x <sup>4</sup> B. x <sup>6 </sup> /2 C. 1/6x <sup>5</sup> D. x <sup>5 </sup> /103
4	Question Image	A. cos 2x + c B cos 2x + c C. tan 2x + c D. cot 2x + c
5	Question Image	
6	The differential equation of all st. lines which are at a constant distance to form the origin is	
7	Question Image	
8	Question Image	
9	Question Image	A. 2, 3 B. 3, 3 C. 2, 6 D. 2, 4
10	Question Image	B. ln(x <sup>2</sup> - x + 1) <sup>4</sup> + c
11	Question Image	A. sin x + c Bsin x + c C. cos x + c Dcos x + c
12	Question Image	
13	Question Image	
14	Question Image	
15	An equation in which at least one term contains dy/dx, $d^2$ y /dx $^2$ etc, is called.	<ul><li>A. Differential equation</li><li>B. Initial condition</li><li>C. General solution</li><li>D. Singular equation</li></ul>
16	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
17	Which of the following integrals can be evaluated	
18	Question Image	
19	Question Image	A. 4(x <sup>3</sup> - 3x <sup>2</sup> ) <sup>3</sup> + c B. 3x <sup>2</sup> - 6x + c
20	Question Image	A. a sec(ax + b) + c B a sec(ax + b) + c