ECAT (Pre-Eng) Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image	A. 1 B. 2 C. 3 D. 4
2	If the lower limit of an integral is a constant and the upper limit is a variable, then the integral is a	A. Constant function B. Variable value C. Function of upper limit D. All
3	Question Image	
4	Which of the following integrals can be evaluated	
5	Question Image	A. $5x^4 + c$ B. $\frac{1}{6} x^6 + c$ C. $5x^2 + c$ D. $\frac{1}{5} x^6 + c$
6	Question Image	
7	The differential equation of all st. lines which are at a constant distance to form the origin is	
8	The area between the x-axis the curve $y = 4x - x2$ is :	A. 32/2 B. 15 C. 18 D. 21
9	Archimedes approximate the function by horizontal function and the area under f by the sum of small	A. Parallelograms B. Squares C. Retangles D. Polygons
10	Question Image	A. $a \, cosec(ax + b) + c$ B. $- a \, cosec(ax + b) + c$
11	Question Image	A. $cot \, x + c$ B. $tan \, x + c$ C. $-cot \, x + c$ D. $-tan \, x + c$
12	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
13	Question Image	A. A variable B. A constant C. 0 D. None of these
14	$\int f(x)$ is known as:	A. Definite itegral B. Indefinite integral C. Fixed integral D. Multiple integral
15	Question Image	A. $Y = -x \log x - x + c$ B. $Y = x \log x + x$ C. $Y = x \log x - x + c$ D. None of these
16	Question Image	
17	Question Image	
18	Question Image	
19	Question Image	
20	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A. -25 B. 0.75 C. -0.35 D. -10