

ECAT Pre General Science Mathematics Online Test

| Sr | Questions | Answers Choice |
|----|----------------|---|
| 1 | Question Image | A. $3 \sec^2 x$ B. $3 \sec^2 x \tan^3 x$ C. $\sec^2 x \tan^3 x$ D. $\sec^2 x$ |
| 2 | Question Image | A. $\cos 2x$ B. $2 \cos 2x$ C. $2 \sin 2x$ D. $-2 \cos 2x$ |
| 3 | Question Image | D. none of these |
| 4 | Question Image | D. none of these |
| 5 | Question Image | D. none of these |
| 6 | Question Image | |
| 7 | Question Image | |
| 8 | Question Image | A. 100 B. 99 C. 0 D. none of these |
| 9 | Question Image | A. x^3 B. $3x^2$ C. $3x$ D. 3 |
| 10 | Question Image | A. 0 B. -1 C. 1 D. not defined |
| 11 | Question Image | A. 0 B. -1 C. 1 D. not defined |
| 12 | Question Image | |
| 13 | Question Image | |
| 14 | Question Image | A. 0 B. -1 C. 1 D. -2 |
| 15 | Question Image | A. 0 B. -1 C. 1 D. 2 |
| 16 | Question Image | A. 0 B. -1 C. 1 |
| 17 | Question Image | |
| 18 | Question Image | A. 0 B. -1 C. 1 D. $1/2$ |
| 19 | Question Image | A. $\cos x$ B. $\sec x \tan x$ C. $\sec^2 x$ D. $-\operatorname{cosec}^2 x$ |
| 20 | Question Image | A. $\sec x \tan x$ B. $-\operatorname{cosec} x \cot x$ C. $\sec^2 x$ D. $\sec^2 x$ |

D. $-\sin x$

21

Question Image

- A. $-\operatorname{cosec}^2 x$
B. $-\sec^2 x$
C. $-\operatorname{cosec} x \cot x$
D. $\operatorname{cosec} x$

22

Question Image

- A. $\sec x \tan x$
B. $\cos^2 x$
C. $\sin^2 x$
D. $\sec^2 x$

23

Question Image

24

Question Image

- A. $-\cos x$
B. $\sin x$
C. $-\sin x$
D. $\sec x$

25

Question Image

- A. $\cos x$
B. $-\sin x$
C. $-\cos x$
D. $\tan x$

26

Question Image

27

Question Image

- A. $100x^{99}$
B. $100x^{101}$
C. $-99x^{99}$
D. $-100x^{101}$

28

Question Image

D. none of these

29

Question Image

30

Question Image

- A. x^{39}
B. $40x^{39}$
C. $40x^{41}$
D. none of these