

# Sample Paper 1

## Mathematics (Code-041)

### Class XII Session 2022-23

**Time Allowed: 3 Hours**

**General Instructions :**

- This Question Paper contains - five sections A, B, C, D and E. Each section is compulsory. However, internal choices in some questions.
- Section A has 18 MCQs and 02 Assertion-Reason based questions of 1 mark each.
- Section B has 5 Very Short Answer (VSA)-type questions of 2 marks each.
- Section C has 6 Short Answer (SA)-type questions of 3 marks each.
- Section D has 4 Long Answer (LA)-type questions of 5 marks each.
- Section E has 3 source based/case based/passage based/integrated units of assessment (4 marks each part).

**Maximum 100**

## Section - A

**Multiple Choice Questions each question carries 1 mark.**

The symmetric part of the matrix  $A = \begin{pmatrix} 1 & 2 & 4 \\ 6 & 8 & 2 \\ 2 & -2 & 7 \end{pmatrix}$  is equal to

- (a)  $\begin{bmatrix} 0 & -2 & -1 \\ -2 & 0 & -2 \\ -1 & -2 & 0 \end{bmatrix}$
- (c)  $\begin{bmatrix} 0 & -2 & 1 \\ 2 & 0 & 2 \\ -1 & 2 & 0 \end{bmatrix}$

- (b)  $\begin{bmatrix} 1 & 4 & 3 \\ 2 & 8 & 0 \\ 3 & 0 & 7 \end{bmatrix}$
- (d)  $\begin{bmatrix} 1 & 4 & 3 \\ 4 & 8 & 0 \\ 3 & 0 & 7 \end{bmatrix}$

If  $y = \tan^{-1} \sqrt{\frac{1-\sin x}{1+\sin x}}$ , then the value of  $\frac{dy}{dx}$  at  $x = \frac{\pi}{6}$  is

- (a)  $-\frac{1}{2}$
- (c) 1

- (b)  $\frac{1}{2}$
- (d) -1

If  $f(x) = \log_e(\sin x)$ , then  $f(e)$  is equal to

- (a)  $e^{-1}$
- (c) 1

- (b)  $e$
- (d) 0

The least value of the function  $f(x) = ax + b/x$ ,  $a > 0$ ,  $b > 0$ ,  $x > 0$  is

- (a)  $\sqrt{ab}$
- (c)  $2\sqrt{\frac{b}{a}}$

- (b)  $2\sqrt{\frac{a}{b}}$
- (d)  $2\sqrt{ab}$

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Sample Paper 1

CBSE Mathematics

The point on the curve  $x^2 = 2y$  which is nearest to the point (0,5) is

- (a)  $(2\sqrt{2}, 4)$
- (c) (0,0)

- (b)  $(2\sqrt{2}, 0)$
- (d) (2,2)

The value of  $\int \left( \sqrt{x} - \frac{1}{\sqrt{x}} \right)^2 dx$  is

- (a)  $\frac{x^2}{2} + \log|x| - 2x + C$
- (c)  $\frac{x^2}{2} - \log|x| - 2x + C$

- (b)  $\frac{x^2}{2} + \log|x| + 2x + C$
- (d) None of these

The area of the region bounded by the lines  $y = mx$ ,  $x = 1$ ,  $x = 2$  and  $X$ -axis is 6 sq units, then  $m$  is

- (a) 3
- (c) 2

- (b) 1
- (d) 4

Find the area of a curve  $xy = 4$ , bounded by the lines  $x = 1$  and  $x = 3$  and  $X$ -axis.

- (a)  $\log 12$

- (b)  $\log 64$

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**J Elliott**



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