

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 1

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

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

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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