

SUBJECT: MATHEMATICS CLASS : XII
**MAX. MARKS : 100
DURATION : 3 HRS**
General Instruction:

- (i) All questions are compulsory.
- (ii) This question paper contains 29 questions.
- (iii) Question 1- 4 in Section A are very short-answer type questions carrying 1 mark each.
- (iv) Question 5-12 in Section B are short-answer type questions carrying 2 marks each.
- (v) Question 13-23 in Section C are long-answer-I type questions carrying 4 marks each.
- (vi) Question 24-29 in Section D are long-answer-II type questions carrying 6 marks each.

SECTION – A
Questions 1 to 4 carry 1 mark each.

- If the binary operation $*$ on the set of integers Z , is defined by $a * b = a + 3b^2$, then find the value of $2 * 4$.
- If $f: R \rightarrow R$ be defined by $f(x) = (3 - x^2)^{1/3}$, then find $f \circ f(x)$.
- If A is a 3×3 matrix, $|A| \neq 0$ and $|3A| = k |A|$, then write the value of k .
- Find a vector in the direction of vector $2\hat{i} - 3\hat{j} + 6\hat{k}$ which has magnitude 21 units.

OR

Find the unit vector in the direction of vector $\overrightarrow{PQ}$, where P and Q are the points (1, 2, 3) and (4, 5, 6), respectively.

SECTION – B
Questions 5 to 12 carry 2 marks each.

- Prove that $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left(\frac{1-x}{1+x} \right)$, $x \in (0, 1)$
- If $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$, find the value of $x + y$.
- If $y = \cot^{-1} \sqrt{\frac{1-\sin x}{1+\sin x}}$, find $\frac{dy}{dx}$.
- Evaluate: $\int \frac{x e^x}{(1+x)^2} dx$

OR

Evaluate: $\int \frac{1}{\sqrt{2x-x^2}} dx$

- Find the approximate change in the volume V of a cube of side x meters caused by increasing the side by 2%.
- If $\vec{a}$ and $\vec{b}$ are perpendicular vectors, $|\vec{a} + \vec{b}| = 13$ and $|\vec{a}| = 5$ find the value of $|\vec{b}|$.

OR

If $\vec{a} = 5\hat{i} - \hat{j} - 3\hat{k}$ and $\vec{b} = \hat{i} + 3\hat{j} - 5\hat{k}$, then show that the vectors $\vec{a} - \vec{b}$ and $\vec{a} + \vec{b}$ are perpendicular.

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Guillaume Favre

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Table of Contents Maths Paper Grade 12

1. Understanding the eBook Maths Paper Grade 12
 - The Rise of Digital Reading Maths Paper Grade 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper Grade 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maths Paper Grade 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper Grade 12
 - Personalized Recommendations
 - Maths Paper Grade 12 User Reviews and Ratings
 - Maths Paper Grade 12 and Bestseller Lists
5. Accessing Maths Paper Grade 12 Free and Paid eBooks
 - Maths Paper Grade 12 Public Domain eBooks

- Maths Paper Grade 12 eBook Subscription Services
- Maths Paper Grade 12 Budget-Friendly Options
- 6. Navigating Maths Paper Grade 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper Grade 12 Compatibility with Devices
 - Maths Paper Grade 12 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper Grade 12
 - Highlighting and Note-Taking Maths Paper Grade 12
 - Interactive Elements Maths Paper Grade 12
- 8. Staying Engaged with Maths Paper Grade 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper Grade 12
- 9. Balancing eBooks and Physical Books Maths Paper Grade 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper Grade 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper Grade 12
 - Setting Reading Goals Maths Paper Grade 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper Grade 12
 - Fact-Checking eBook Content of Maths Paper Grade 12
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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