

COURSE STRUCTURE**Class XI****One Paper****Three Hours****Max Marks. 100**

Units	Marks
I. SETS AND FUNCTIONS	29
II. ALGEBRA	37
III. COORDINATE GEOMETRY	13
IV. CALCULUS	06
V. MATHEMATICAL REASONING	03
VI. STATISTICS AND PROBABILITY	12

UNIT-I: SETS AND FUNCTIONS**1. Sets :****(12) Periods**

Sets and their representations. Empty set. Finite & Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets. Difference of sets. Complement of a set. Properties of Complement Sets.

2. Relations & Functions:**(14) Periods**

Ordered pairs, Cartesian product of sets. Number of elements in the cartesian product of two finite sets. Cartesian product of the set of reals with itself (upto $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$). Definition of relation, pictorial diagrams, domain, codomain and range of a relation. Function as a special kind of relation from one set to another. Pictorial representation of a function, domain, co-domain & range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum and greatest integer functions, with their graphs. Sum, difference, product and quotients of functions.

3. Trigonometric Functions:**(18) Periods**

Positive and negative angles. Measuring angles in radians & in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin^2 x + \cos^2 x = 1$, for all x . Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin(x \pm y)$ and $\cos(x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x$ & $\cos y$. Deducing the identities like the following:

$$\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}, \cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x},$$

$$\sin x + \sin y = 2 \sin \frac{x+y}{2} \cos \frac{x-y}{2}, \cos x + \cos y = 2 \cos \frac{x+y}{2} \cos \frac{x-y}{2},$$

$$\sin x - \sin y = 2 \cos \frac{x+y}{2} \sin \frac{x-y}{2}, \cos x - \cos y = -2 \sin \frac{x+y}{2} \sin \frac{x-y}{2},$$

Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$. General solution of trigonometric equations of the type $\sin \theta = \sin \alpha$, $\cos \theta = \cos \alpha$ and $\tan \theta = \tan \alpha$. Proof and simple applications of sine and cosine formulae.

UNIT-II: ALGEBRA**1. Principle of Mathematical Induction:****(06) Periods**

Process of the proof by induction, motivating the application of the method by looking at natural numbers as the least inductive subset of real numbers. The principle of mathematical induction and simple applications.

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M Lipman



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Table of Contents Maths P2014 Grade11

1. Understanding the eBook Maths P2014 Grade11
 - The Rise of Digital Reading Maths P2014 Grade11
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths P2014 Grade11
 - 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 P2014 Grade11
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths P2014 Grade11
 - Personalized Recommendations
 - Maths P2014 Grade11 User Reviews and Ratings
 - Maths P2014 Grade11 and Bestseller Lists
5. Accessing Maths P2014 Grade11 Free and Paid eBooks
 - Maths P2014 Grade11 Public Domain eBooks
 - Maths P2014 Grade11 eBook Subscription Services
 - Maths P2014 Grade11 Budget-Friendly Options
6. Navigating Maths P2014 Grade11 eBook Formats

- ePub, PDF, MOBI, and More
- Maths P2014 Grade11 Compatibility with Devices
- Maths P2014 Grade11 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths P2014 Grade11
 - Highlighting and Note-Taking Maths P2014 Grade11
 - Interactive Elements Maths P2014 Grade11
- 8. Staying Engaged with Maths P2014 Grade11
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths P2014 Grade11
- 9. Balancing eBooks and Physical Books Maths P2014 Grade11
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths P2014 Grade11
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths P2014 Grade11
 - Setting Reading Goals Maths P2014 Grade11
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths P2014 Grade11
 - Fact-Checking eBook Content of Maths P2014 Grade11
 - 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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