



# Dwarka International School

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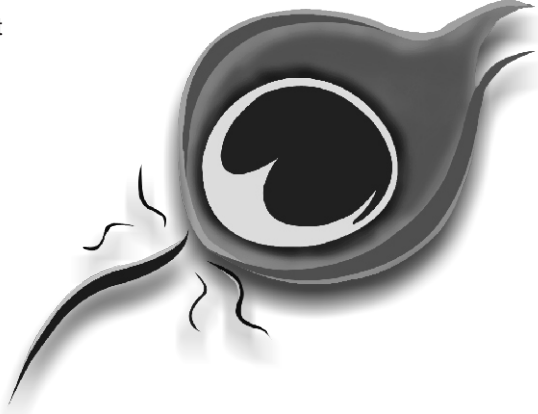
(Syllabus)

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**Class – XII**  
Session 2024-2025

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## **VISION**

Dwarka International School endeavours to empower students with decision making, reflection, self-assessment, foresight and ‘learning by doing’ thus enabling them to attain an enriching educational experience. The school builds not only conscientious pupils and diligent students but also global citizens, empathetic persons and tolerant individuals, one who understands the needs of peers as well as co-citizens and respects diversity and opinion of others. The school envisages a society comprising strong academic personalities, eminent sports persons, good orators, talented actors, melodious singers, poised dancers, skilled educators, true leaders for which it exposes the students to a plethora of activities and gives them the platform to discover themselves and decide their goals. Thus the vision of the school is to instill self confidence and direction into each student and also to infuse in him/her twenty first century skills to make them adept learners throughout their lifetimes.

## **MISSION**

Dwarka International School strives to nurture its pupils with love, care and affection. The school in its attempt to chisel their innate skills provides them a platform to perform and excel. It instills in the students essential skills as critical thinking, leadership, problem solving, effective communication, time management and team coordination with giving due respect to values as compassion, honesty, empathy and forgiveness. The school believes in experiential education “Learning by Doing” wherein the child is engaged actively in the learning process. The role of educators in the school is to facilitate learning, provide experiences and take care to expose themselves to the power of the students’ ideas as well. Educators, rather than being purveyors of knowledge, give students the chance to make meaning of the situation in a way that they need. Education in the school is accomplished not only within the classroom but also beyond the precincts of the classroom, hence abiding by the philosophy of “Learning beyond Classroom” which is the school motto. Nature walk, heritage walk, visits to significant places, enables the students to explore the world outside the classroom and help them to ponder and contemplate. Debate, declamation, role-play allow them to voice their opinion and encourage them to argue with valid points and firm conviction. Knowledge, therefore, through a series of experiences brings meaning to the skill and understanding and imparts a new dimension to learning.

The school has been instrumental in helping students to cope with performance pressure particularly during the pandemic. Regular counseling has helped the students to manage stress and anxiety and to adapt to the new format of learning i.e. virtual classes and at the same time enabled them to adjust to the real environment of the school as the school reopened for physical classes. The school caters to the physical, emotional and mental needs of the child and renders them endurance, strength and integrity of character, mental agility and physical fitness to sail through the journey of life and brave all odds and complexities.

## LIST OF HOLIDAYS

**Session (2025-25) Start : April 01, 2025**

<b><u>APRIL-2024</u></b>		
April 11, 2024	Thursday	Id-UI-Fitr
April 17, 2024	Wednesday	Ram Navami
April 21, 2024	Sunday	Mahavir Jayanti
<b><u>MAY-JUNE (2024)</u></b>		
May 23, 2024	Thursday	Budha Purnima
May 11, 2024 To June 30, 2024 (LKG - Class II)	Saturday - Sunday	Summer Break
May 18 2024 To June 30, 2024 (Classes III- VIII)	Saturday - Sunday	Summer Break
June 01, 2024 To June 30, 2024 (Class IX-XII)	Saturday - Sunday	Summer Break
June 17, 2024	Monday	Id-UI-Zuha
<b><u>JULY-2024</u></b>		
July 17, 2024	Wednesday	Muharram
<b><u>AUGUST-2024</u></b>		
August 15, 2024	Thursday	Independence Day
August 19, 2024	Monday	Rakshabandhan
August 26, 2024	Monday	Janamashtami
<b><u>SEPTEMBER-2024</u></b>		
September 16, 2024	Monday	Milad-un-Nabi
<b><u>OCTOBER-2024</u></b>		
October 2, 2024	Wednesday	Gandhi Jayanti
October 10,2024-October 12, 2024	Thursday- Saturday	Dussehra Break
October 17, 2024	Thursday	Maharishi Valmiki's Jayanti
October 20, 2024	Sunday	Karwa Chouth
October 30,2024 to November 03, 2024	Wednesday-Sunday	Diwali
<b><u>NOVEMBER-2024</u></b>		
November 15, 2024	Friday	Guru Nanak's Birthday
<b><u>DECEMBER -2024</u></b>		
December 25, 2024	Wednesday	Christmas
<b><u>JANUARY -2025</u></b>		
January 1, 2025 to January 10, 2025 ( Classes VI-XII)	Wednesday-Friday	Winter Break
January 1, 2025 to January 14, 2025 ( Classes NUR-V)	Wednesday – Tuesday	Winter Break
January 26, 2025	Sunday	Republic Day
<b><u>February-2025</u></b>		
February 26, 2025	Wednesday	Mahashivratri
<b><u>MARCH -2025</u></b>		
March 14, 2025	Friday	Holi

**DWARKA INTERNATIONAL SCHOOL  
DATESHEET - CLASS XII, SESSION 2024-25**

**TERM - 1**

UNIT TEST -1			UNIT TEST -2			DATE	DATE	DATE
DATE	DAY	SUBJECT	DATE	DAY	SUBJECT			
06/05/2024	MONDAY	ENGLISH	22/07/2024	MONDAY	ECONOMICS/PHYSICS			
07/05/2024	TUESDAY	PHYSICS/ HISTORY/ GEOGRAPHY/ B.STUDIES	23/07/2024	TUESDAY	MATHEMATICS/INFORMATICS PRACTICES			
08/05/2024	WEDNESDAY	ECONOMICS/BIOLOGY	24/07/2024	WEDNESDAY	ENGLISH	11/09/2024- 30/09/2024	25/11/2024- 09/12/2024	07/01/2025- 20/01/2025 PRE BOARD-2
09/05/2024	THURSDAY	MATHEMATICS/ INFORMATICS PRACTICES	25/07/2024	THURSDAY	CHEMISTRY/ACCOUNTANCY/POLITICAL SCIENCE	HALF YEARLY EXAMINATION	PRE-BOARD-1 EXAMINATION	BOARD-1 EXAMINATION
10/05/2024	FRIDAY	PHYSICAL EDUCATION/ PAINTING/ COMPUTER SCIENCE/ PSYCHOLOGY	26/07/2024	FRIDAY	BIOLOGY/HISTORY/GEOGRAPHY/B.STUDIES			
13/05/2024	MONDAY	CHEMISTRY/ACCOUNTANCY/P OPTICAL SCIENCE	29/07/2024	MONDAY	PHYSICAL EDUCATION/ PAINTING/ COMPUTER SCIENCE/ PSYCHOLOGY			

**NOTE: Dates can be change due to some unavoidable circumstances**

## Subject – ENGLISH

### PRESCRIBED BOOKS:

**FLAMINGO** – MAIN COURSE BOOK

**VISTAS** – SUPPLEMENTARY READER

### MARCH & APRIL

#### **FLAMINGO**

- Poetry - My Mother at Sixty-Six by Kamala Das
- CH - Poets and Pancakes by Asokamitran
- CH - The Last Lesson by Alphonse Daudet

#### **WRITING SKILLS**

Notice Writing, Job Application, Letter to Editor

### MAY

#### **FLAMINGO**

- Poetry - Keeping Quiet by Pablo Neruda
- Poetry - Aunt Jennifer's Tigers by Adrienne Rich

#### **VISTAS**

- CH - The Tiger King by Kalki

#### **WRITING SKILLS**

Report Writing, Article Writing

### JULY

#### **FLAMINGO**

- CH - Lost Spring by Anees Jung
- CH - The Rattrap by Selma Lagerlof
- CH - The Interview by Christopher Silvester

#### **VISTAS**

- CH - The Third Level by Jack Finney
- CH - On the Face of It by Susan Hill

#### **WRITING SKILLS**

Invitation and Replies

### AUGUST

#### **FLAMINGO**

- CH - Deep Water by William Douglas
- CH - Indigo by Louis Fischer

#### **VISTAS**

- CH - Journey to the End of the Earth
- CH - Memories of Childhood by Zitkala Sa and Bama

CH - The Enemy by Pearl. S. Buck-Brainstorming  
**WRITING SKILLS**  
Report Writing

**SEPTEMBER**  
HALF-YEARLY ASSESSMENT

**OCTOBER**  
**FLAMINGO**

- Poetry - A Roadside Stand by Robert Frost
- Poetry - A Thing of Beauty by John Keats
- CH - Going Places by A.R. Barton

**NOVEMBER**  
REVISION

**DECEMBER**  
PRE-BOARD I EXAMINATION

**JANUARY**  
PRE-BOARD II EXAMINATION

**UT-1**  
**READING SKILLS**  
CASE BASED PASSAGE  
**LITERATURE**  
**FLAMINGO**

- Poetry - My Mother at Sixty-Six by Kamala Das
- CH - Poets and Pancakes by Asokamitran

**WRITING SKILLS**  
Notice Writing  
Job Application

**UT-2**  
**READING SKILLS**  
FACTUAL/DISCURSIVE PASSAGE  
**LITERATURE**  
**FLAMINGO**

- CH - The Last Lesson by Alphonse Daudet
- Poetry - Keeping Quiet by Pablo Neruda
- Poetry - Aunt Jennifer's Tigers

## **VISTAS**

CH - The Tiger King by Kalki

## **WRITING SKILLS**

Formal Invitation and Replies

Letter to Editor

## **HALF YEARLY ASSESSMENT**

### **READING SKILLS**

FACTUAL/DESCRIPTIVE/DISCURSIVE/LITERARY PASSAGE

CASE BASED PASSAGE

### **FLAMINGO**

CH - Poets and Pancakes by Asokamitran

CH - The Last Lesson by Alphonse Daudet

CH - The Interview by Christopher Silvester

CH - Lost Spring by Anees Jung

CH - The Rattrap by Selma Lagerlof

CH - Deep Water by William Douglas

CH - Indigo by Selma Lagerlof

Poetry - My Mother at Sixty-Six by Kamala Das

Poetry - Keeping Quiet by Pablo Neruda

Poetry - Aunt Jennifer's Tigers

## **VISTAS**

CH - The Tiger King by Kalki

CH - Journey to the End of the Earth

CH - The Third Level by Jack Finney

CH - On the Face of It by Susan Hill

CH - The Enemy by Pearl. S. Buck

CH - Memories of Childhood by Zitkala Sa and Bama

## **WRITING SKILLS**

NOTICE WRITING

INVITATION AND REPLIES

JOB APPLICATION

LETTER TO EDITOR

ARTICLE WRITING

REPORT WRITING

## **PRE-BOARD I EXAMINATION**

ENTIRE SYLLABUS

## **PRE-BOARD II EXAMINATION**

ENTIRE SYLLABUS



## Subject – MATHEMATICS

**Prescribed Book-** Mathematics (Text Book For Class XI) - Part-1, Part-2

### MARCH

- Week 3&4** Chapter-3  
Topics
- **MATRICES**
  - Matrices, types of matrices, operations and transpose of a matrix

### APRIL

- Week 1** Chapter-3  
Topics
- **MATRICES (contd)**
  - Symmetric and skew symmetric matrices , Invertible Matrices
- Week 2** Chapter-4  
Topics
- **DETERMINANTS**
  - Area of a triangle, Minors and cofactors
- Week 3** Chapter-4  
Topics
- **DETERMINANTS (contd)**
  - Adjoint and inverse of a matrix, Applications of determinants and matrices
- Week 4** Chapter-2  
Topics
- **INVERSE TRIGONOMETRIC FUNCTIONS**
  - Principal branch of inverse trigonometric functions

### MAY

- Week 1** Chapter-1  
Topics
- **RELATIONS AND FUNCTIONS**
  - Relations, Functions
- Week 2** Chapter-5  
Topics
- **CONTINUITY AND DIFFERENTIABILITY**
  - Continuity, Differentiability, Exponential and Logarithmic functions
- Week 3** Chapter-5  
Topics
- **CONTINUITY AND DIFFERENTIABILITY (contd)**
  - Logarithmic functions, Parametric functions, Second order derivative, mean value theorem
- Week 4** Chapter-6  
Topics
- **APPLICATION OF DERIVATIVE**
  - Rate of change of quantities, Increasing and decreasing

## JULY

- |               |                      |                                                                                              |
|---------------|----------------------|----------------------------------------------------------------------------------------------|
| <b>Week 1</b> | Chapter-6<br>Topics  | - <b>APPLICATION OF DERIVATIVE</b><br>- Maxima and Minima                                    |
| <b>Week 2</b> | Chapter-6<br>Topics  | - <b>APPLICATION OF DERIVATIVE (contd)</b><br>- Maxima and Minima                            |
| <b>Week 3</b> | Chapter-12<br>Topics | - <b>LINEAR PROGRAMMING</b><br>- Linear programming problem and its Mathematical formulation |
| <b>Week 4</b> | Chapter-7<br>Topics  | - <b>INTEGRALS</b><br>- Methods of integration                                               |

## AUGUST

- |               |                     |                                                                                                |
|---------------|---------------------|------------------------------------------------------------------------------------------------|
| <b>Week 1</b> | Chapter-7<br>Topics | - <b>INTEGRALS (contd)</b><br>- Integrals of particular functions, partial functions, by parts |
| <b>Week 2</b> | Chapter-7<br>Topics | - <b>INTEGRALS (contd)</b><br>- Definite Integrals, Properties of Definite integrals           |
| <b>Week 3</b> | Chapter-7<br>Topics | - <b>APPLICATION OF INTEGRALS</b><br>- Area under simple curves                                |
| <b>Week 4</b> | Chapter-9<br>Topics | - <b>DIFFERENTIAL EQUATIONS</b><br>- Basics concepts, Methods of differential equations        |

## SEPTEMBER

### **Revision of Half Yearly Examination Half Yearly Examination**

## OCTOBER

- |                     |                      |                                                                                                                                |
|---------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Week 1</b>       | Chapter-10<br>Topics | - <b>VECTOR ALGEBRA</b><br>- Vectors, types of vectors, Addition , Subtractions, Multiplication of vectors                     |
| <b>Week 2</b>       | Chapter-11<br>Topics | - <b>THREE DIMENSIONAL GEOMETRY</b><br>- Direction cosines , Direction ratios , Line in a space                                |
| <b>Week 3&amp;4</b> | Chapter-11<br>Topics | - <b>PROBABILITY</b><br>- Conditional probability, Total probability, Multiplication theorem, Bayes Theorem , Random variables |

## **NOVEMBER**

Revision of Pre board-1 Examination

## **DECEMBER**

Pre board - 1 Examination

Revision of Pre board - 2 Examination

## **JANUARY**

Pre board - 2 Examination

## **FEBRUARY**

Revision of Final examination

## **NOTE : INTERNAL ASSESSMENT : 10 LAB ACTIVITIES AS PER CBSE**

**SYLLABUS FOR UNIT TEST – 1** : Chapter 3,4

**SYLLABUS FOR UNIT TEST – 2** : Chapter 1,5,6

**SYLLABUS FOR HALF YEARLY EXAMINATION –**

Chapter - 1,2,3,4,5,6,7,8,12

**SYLLABUS FOR PRE BOARD EXAMINATION –** Whole syllabus

## Subject – BUSINESS STUDIES

**PRESCRIBED BOOK** : BUSINESS STUDIES, Class XII, Published by NCERT

**REFERENCE BOOK** : BUSINESS STUDIES FOR CLASS XII BY SUBHASH DEY

### MARCH & APRIL

- Part-A
- Unit-1
- **Principles and Functions of Management**
  - **Nature and Significance of Management**
  - Management - concept, objectives, and importance
    - Understand the concept of management.
    - Explain the meaning of ‘Effectiveness and Efficiency.
    - Discuss the objectives of management.
    - Describe the importance of management.
  - Management as Science, Art and Profession
    - Examine the nature of management as a science, art and profession.
  - Levels of Management
    - Understand the role of top, middle and lower levels of management
  - Management functions-planning, organizing, staffing, directing and controlling
    - Explain the functions of management
  - Coordination- concept and importance
    - Discuss the concept and characteristics of coordination.
    - Explain the importance of coordination.
- Unit-2
- **Principles of Management**
  - Principles of Management- concept and significance
    - Understand the concept of principles of management.
    - Explain the significance of management principles.
  - Fayol's principles of management
    - Discuss the principles of management developed by Fayol.
  - Taylor's Scientific management- principles and techniques

- Explain the principles and techniques of 'Scientific Management'.
- Compare the contributions of Fayol and Taylor.

## **SYLLABUS:**

### **UNIT TEST 1**

#### **Unit 1: Nature and Significance of Management**

#### **Unit 2: Principles of Management**

### **MAY**

#### Unit-3

- **Business Environment**
- Business Environment- concept and importance
  - Understand the concept of 'Business Environment'.
  - Describe the importance of business environment
- Dimensions of Business Environment Economic, Social, Technological, Political and Legal
  - Demonetization - concept and features
  - Describe the various dimensions of 'Business Environment'.
  - Understand the concept of demonetization

#### Unit-4

- **Planning**
- Concept, importance and limitation
  - Understand the concept of planning.
  - Describe the importance of planning.
  - Understand the limitations of planning.
- Planning process
  - Describe the steps in the process of planning.
- Single use and standing plans. Objectives, Strategy, Policy, Procedure, method Rule, budget and Programme
  - Develop an understanding of single use and standing plans
  - Describe objectives, policies, strategy, procedure, method, rule, budget and programme as types of plans.

#### Unit-5

- **Organising**
- Concept and importance
  - Understand the concept of organizing as a structure and as a process.
  - Explain the importance of organising

- Organising Process
  - Describe the steps in the process of organizing
- Structure of organisation- functional and divisional concept. Formal and informal organisation- concept
  - Describe functional and divisional structures of organisation.
  - Explain the advantages, disadvantages and suitability of functional and divisional structure.
  - Understand the concept of formal and informal organisation.
  - Discuss the advantages, disadvantages of formal and informal organisation.
- Delegation: concept, elements and importance
  - Understand the concept of delegation.
  - Describe the elements of delegation.
  - Appreciate the importance of Delegation.
- Decentralization: concept and importance
  - Understand the concept of decentralisation.
  - Explain the importance of decentralisation.
  - Differentiate between delegation and decentralisation

## **JULY**

### Unit-6

- **Staffing**
- Concept and importance of staffing
  - Understand the concept of staffing.
  - Explain the importance of staffing
- Staffing as a part of Human Resource Management concept
  - Understand the specialized duties and activities performed by Human Resource Management
- Staffing process
  - Describe the steps in the process of staffing.
- Recruitment process
  - Understand the meaning of recruitment.
  - Discuss the sources of recruitment.
  - Explain the merits and demerits of internal and external sources of recruitment.
- Selection – process
  - Understand the meaning of selection.
  - Describe the steps involved in the process of selection.

- Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training
  - Understand the concept of training and development.
  - Appreciate the importance of training to the organisation and to the employees.
  - Discuss the meaning of induction training, vestibule training, apprenticeship training and internship training.
  - Differentiate between training and development.
  - Discuss on the job and off the job methods of training

## Unit-7

- **Directing**
- Concept and importance
  - Describe the concept of directing.
  - Discuss the importance of directing
- Elements of Directing
  - Describe the various elements of directing
- Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives
  - Understand the concept of motivation.
  - Develop an understanding of Maslow's Hierarchy of needs.
  - Discuss the various financial and non-financial incentives.
- Leadership - concept, styles - authoritative, democratic and laissez faire
  - Understand the concept of leadership.
  - Understand the various styles of leadership.
- Communication - concept, formal and informal communication; barriers to effective communication, how to overcome the barriers
  - Understand the concept of communication
  - Understand the elements of the communication process.
  - Discuss the concept of formal and informal communication.
  - Discuss the various barriers to effective communication.

- Suggest measures to overcome barriers to communication.

## SYLLABUS

### UNIT TEST 2

**Unit 3: Business Environment**

**Unit 4: Planning**

**Unit 5: Organising**

**Unit 6: Staffing**

### AUGUST

Unit-8

- **Controlling**
- Controlling - Concept and importance
  - Understand the concept of controlling.
  - Explain the importance of controlling.
- Relationship between planning and controlling
  - Describe the relationship between planning and controlling
- Steps in process of controlling
  - Discuss the steps in the process of controlling.

Part-B

Unit-9

- **Business Finance and Marketing**
- **Financial Management**
- Concept, role and objectives of Financial Management
  - Understand the concept of financial management.
  - Explain the role of financial management in an organisation.
  - Discuss the objectives of financial management
- Financial decisions: investment, financing and dividend- Meaning and factors affecting
  - Discuss the three financial decisions and the factors affecting them.
- Financial Planning - concept and importance
  - Describe the concept of financial planning and its objectives.
  - Explain the importance of financial planning.
- Capital Structure – concept and factors affecting capital structure
  - Understand the concept of capital structure.
  - Describe the factors determining the choice of an appropriate capital structure of a company.



- Fixed and Working Capital - Concept and factors affecting their requirements
  - Understand the concept of fixed and working capital.
  - Describe the factors determining the requirements of fixed and working capital.

## **SEPTEMBER**

### Unit-10

- **Financial Markets**
- Financial Markets: Concept
  - Understand the concept of financial market.
- Money Market: Concept
  - Understand the concept of money market.
- Capital market and its types (primary and secondary)
  - Discuss the concept of capital market.
  - Explain primary and secondary markets as types of capital market.
  - Differentiate between capital market and money market.
  - Distinguish between primary and secondary markets.
- Stock Exchange - Functions and trading procedure
  - Give the meaning of a stock exchange.
  - Explain the functions of a stock exchange.
  - Discuss the trading procedure in a stock exchange.
  - Give the meaning of depository services and demat account as used in the trading procedure of securities.
- Securities and Exchange Board of India (SEBI) - objectives and functions
  - State the objectives of SEBI.
  - Explain the functions of SEBI.

### Unit-12

- **Consumer Protection**
- Concept and importance of consumer protection
  - Understand the concept of consumer protection.
  - Describe the importance of consumer protection.
  - Discuss the scope of Consumer Protection Act, 2019
- The Consumer Protection Act, 2019 Meaning of

consumer Rights and responsibilities of consumers  
Who can file a complaint? Redressal machinery  
Remedies available

- Understand the concept of a consumer according to the Consumer Protection Act, 2019.
- Explain the consumer rights
- Understand the responsibilities of consumers
- Understand who can file a complaint and against whom?
- Discuss the legal redressal machinery under Consumer Protection Act, 2019.
- Examine the remedies available to the consumer under Consumer Protection Act, 2019.
- Consumer awareness - Role of consumer organizations and Non-Governmental Organizations (NGOs)
- Describe the role of consumer organizations and NGOs in protecting consumers' interests.

## **SYLLABUS**

### **Half yearly Examination**

**Unit 1: Nature and Significance of Management**

**Unit 2: Principles of Management**

**Unit 3: Business Environment**

**Unit 4: Planning**

**Unit 5: Organising**

**Unit 6: Staffing**

**Unit 7: Directing**

**Unit 8: Controlling**

## **OCTOBER**

Unit-11

- **Marketing**
- Marketing – Concept, functions and philosophies
  - Understand the concept of marketing.
  - Explain the features of marketing.
  - Discuss the functions of marketing.
  - Explain the marketing philosophies.
- Marketing Mix – Concept and elements
  - Understand the concept of marketing mix.
  - Describe the elements of marketing mix.
- Product - branding, labelling and packaging – Concept

- Understand the concept of price as an element of marketing mix.
- Describe the factors determining price of a product.
- Price - Concept, Factors determining price
  - Understand the concept of price as an element of marketing mix.
  - Describe the factors determining price of a product
- Physical Distribution – concept, components and channels of distribution
  - Understand the concept of physical distribution.
  - Explain the components of physical distribution.
  - Describe the various channels of distribution.
- Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations
  - Understand the concept of promotion as an element of marketing mix.
  - Describe the elements of promotion mix.
  - Understand the concept of advertising.
  - Understand the concept of sales promotion.
  - Discuss the concept of public relations.

## **NOVEMBER**

### **Revision**

#### **Unit 13: Project Work(any one)**

- I. Project One: Elements of Business Environment
- II. Project Two: Principles of Management
- III. Project Three: Stock Exchange
- IV. Project Four: Marketing

## **DECEMBER**

### **Revision**

#### **PRE- BOARD I**

FULL SYLLABUS (UNIT 1 TO UNIT 12)

#### **PRE- BOARD II**

FULL SYLLABUS (UNIT 1 TO UNIT 12)

## Subject – COMPUTER SCIENCE

### MARCH

#### **Unit I: Computational Thinking and Programming – 2**

- Week 3** - Revision of Python topics covered in Class XI.  
(to be continued)
- Week 4** - Revision of Python topics covered in Class XI.

### APRIL

- Week 1** - Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope)
- Week 2** - arguments and parameters, default parameters, positional parameters, function returning value (s), flow of execution, scope of a variable (global scope, local scope)
- Week 3** - **(Board Practical File Program)**
1. Write a Program to check if the entered number is Armstrong or not.
  2. Write a Program to find factorial of the entered number.
  3. Write a Program to enter the number of terms and to print the Fibonacci Series.
  4. Write a Program to enter the string and to check if it's palindrome or not using loop.
  5. Write a program to sort a sequence using insertion sort.
- Week 4** - Using Python Libraries: Introduction, What is Library?, Importing Module, Creating Python Library.
- Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths

### MAY

- Week 1** - Exception Handling, Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause,

writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file.

#### **Week 2**

- Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file.

#### **Week 3**

- **(Board Practical File Program)**
  1. Read a text file line by line and display each word separated by #.
  2. Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
  3. Remove all the lines that contain the character 'a' in a file and write it to another file.
  4. Create a binary file with name and roll number. Search for a given roll number and display the name, if not found display appropriate message.
  5. Create a binary file with roll number, name and marks. Input a roll number and update the marks.

#### **Week 4**

- CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader()

### **JULY**

#### **Week 1**

- Data Structure: Stack, operations on stack (push & pop) implementation of stack using list.

#### **Week 2**

- **(Practical Assignment)**
  1. Create a CSV file by entering user-id and password, read and search the password for given user-id.
  2. Write a program to search the record from “data.csv” according to the admission number input from the user. Structure of record saved in “data.csv” is Adm\_no, Name, Class, Section, Marks.
  3. Write a program to add/insert records in file “data.csv”. Structure of a record is roll number, name and class.

4. Write a Python program to implement a stack using list.

### **Unit III: Database Management**

#### **Week 3**

- Database concepts: introduction to database concepts and its need
- Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)

#### **Week 4**

- Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table

### **AUGUST**

#### **Week 1**

- Alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command.

#### **Week 2**

- Aggregate functions (max, min, avg, sum, count), group by, having clause, joins : Cartesian product on two tables, equi- join and natural join

#### **Week 3**

- Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications

#### **Week 4**

- Project Discussion and overview for Board Examination.

### **SEPTEMBER**

#### **Week 1**

- Chapter Wise Revision- Half Yearly Examination
  1. Python Revision Tour
  2. Functions
  3. Python Libraries

#### **Week 2**

- Chapter Wise Revision- Half Yearly Examination
  4. File Handling

- 5. Data Structure
- 6. Exception Handling
- 7. Data Structure- Stack

**Week 3**

- HALF YEARLY EXAMINATION

**Week 4**

- HALF YEARLY EXAMINATION

## **OCTOBER**

### **Unit II: Computer Networks**

**Week 1**

- Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET)
- Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)

**Week 2**

- Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves)
- Network devices (Modem, Ethernet card, Rj45, Repeater, Hub, Switch, Router, Gateway, WIFI card)
- Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)

**Week 3**

- Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP
- Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting.

**Week 4**

- PROJECT WORK & PRACTICAL FILE WORK

## **NOVEMBER**

### **Chapter wise Assignment**

**Week 1** Chapter 1 - Python Revision Tour

Chapter 2 - Functions

- Week 2** Chapter 3 - File Handling  
- Compile Practical File
- Week 3** Chapter 4 - Data Structure (stack)  
Chapter 5 - Computer Network
- Week 4** - Unit-III - Database Concept  
- Compile Project File

### **DECEMBER**

- Week 1** - Practice Sample Paper
- Week 2** - PRE BOARD – I EXAMINATION
- Week 3** - PRE BOARD – I EXAMINATION

### **ANNUAL EXAMINATION**

**SYLLABUS FOR UNIT TEST – 1** : Chapter 1,2

**SYLLABUS FOR UNIT TEST – 2** : Chapter 3,4,5

**SYLLABUS FOR HALF YEARLY EXAMINATION –**  
Chapter 1,2,3,4,5,6,7,10

**SYLLABUS FOR PRE BOARD EXAMINATION –** Whole syllabus



## Subject – INFORMATICS PRACTICES

### MARCH

#### **Unit 1: Data Handling using Pandas and Data Visualization**

##### **Week 3**

- Data Handling using Pandas -I
- Introduction to Python libraries- Pandas, Matplotlib.
- Data structures in Pandas - Series and data frames. Series

##### **Week 4**

- Creation of series from dictionary, scalar value; mathematical operations; series attributes, head and tail functions; selection, indexing and slicing. Data Frames: creation of data frames from dictionary of series, list of dictionaries, text/CSV files, display, iteration

### APRIL

##### **Week 1**

- Operations on rows and columns: add (insert /append) , select, delete (drop column and row), rename, Head and Tail functions, indexing using labels, Boolean Indexing.

##### **Week 2**

- Data Visualization
- Data Visualization : Purpose of plotting, drawing and saving of plots using Matplotlib

##### **Week 3**

- **(Board Practical File Program)**
- 1. Create a panda's series from a dictionary of values and a ndarray
- 2. Given a Series, print all the elements that are above the 75th percentile.
- 3. Create a Data Frame quarterly sales where each row contains the item category, item name and expenditure. Group the rows by the category and print the total expenditure per category.
- 4. Create a data frame for examination result and display row labels, column labels data types of each column and the dimensions

##### **Week 4**

- lots using Matplotlib (line plot, bar graph, histogram).

### MAY

##### **Week 1**

- Customizing plots;; adding label, title, and legend in plots.

## **Unit 2: Database Query using SQL**

### **Week 2**

- Math functions: POWER (), ROUND (), MOD ().
- Text functions: UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (), INSTR (), LTRIM (), RTRIM (), TRIM ().

### **Week 3**

- Date Functions: NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME (). Aggregate Functions: MAX (), MIN (), AVG (), SUM (), COUNT (); using COUNT (\*).

### **Week 4**

- Querying and manipulating data using Group by, Having, Order by.

## **JULY**

### **Week 1**

- **(Board Practical File Program)**
- 1. Filter out rows based on different criteria such as duplicate rows.
- 2. Importing and exporting data between pandas and CSV file.
- 3. Given the school result data, analyses the performance of the students on different parameters, e.g subject wise or class wise.
- 4. For the Data frames created above, analyze, and plot appropriate charts with title and legend.
- 5. Take data of your interest from an open source (e.g. data.gov.in), aggregate and summarize it. Then plot it using different plotting functions of the Matplotlib library.

### **Week 2**

- **(Practical Assignment)**
- Practical List
- Data Management
- 1. Create a student table with the student id, name, and marks as attributes where the student id is the primary key.
- 2. Insert the details of a new student in the above table.
- 3. Delete the details of a student in the above table.
- 4. Use the select command to get the details of the students with marks more than 80.
- 5. Find the min, max, sum, and average of the

- marks in a student marks table.
6. Find the total number of customers from each country in the table (customer ID, customer Name, country) using group by.
  7. Write a SQL query to order the (student ID, marks) table in descending order of the marks

### **Unit 3: Introduction to Computer Networks**

- Week 3** - Introduction to networks, Types of network: LAN, MAN, WAN Network Devices: modem, hub, switch, repeater, router, gateway.
- Week 4** - Website: Introduction, difference between a website and web page, static vs dynamic web page, web server and hosting of a website.

### **AUGUST**

- Week 1** - Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies.
- Week 2** - Aggregate functions (max, min, avg, sum, count), group by, having clause, joins: Cartesian product on two tables, equi-join and natural join
- Week 3** - Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications
- Week 4** - Project Discussion and overview for Board Examination.

### **SEPTEMBER**

- Week 1** - Chapter wise Revision - HALF YEARLY EXAMINATION  
1. Python Pandas I  
2. Python Pandas II
- Week 2** - Chapter wise Revision - HALF YEARLY EXAMINATION  
3. Data Visualization  
4. Database Management
- Week 3** - HALF YEARLY EXAMINATION
- Week 4** - HALF YEARLY EXAMINATION

### **OCTOBER**

#### **Unit 4: Societal Impacts**

- Week 1** - Digital footprint, net and communication etiquettes,
- Data protection, intellectual property rights (IPR)
- Week 2** - plagiarism, licensing and copyright
- Week 3** - Free and open source software (FOSS), Cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act
- Week 4** - E-waste: hazards and management. Awareness about health concerns related to the usage of technology.

## **NOVEMBER**

### **Chapter wise Assignment**

- Week 1** - Chapter - 1 Python Pandas I
- Week 2** - Chapter - 2 Python Pandas II
- Week 3** - Chapter - 3 Data Visualization
- Week 4** - Unit III - Database Management  
Compile Project File

## **DECEMBER**

- Week 1** - Unit 4: Societal Impacts  
Practice Sample Paper
- Week 2** - PRE BOARD – I EXAMINATION
- Week 3** - PRE BOARD – I EXAMINATION
- Week 4** - Practice Sample Paper and Discussion of common mistake done in Preboard – 1 Examination.

## **JANUARY**

- Week 1** - Winter Break
- Week 2** - Sample Paper Practice
- Week 3** - PRE BOARD –II EXAMINATION
- Week 4** - PRE BOARD –II EXAMINATION

## **FEBRUARY**

- Week 1** - Revision of whole syllabus
- Week 2** - Practice of SAMPLE Paper
- Week 3** - Practice of SAMPLE Paper
- Week 4** - Practice of SAMPLE Paper

### **Annual Examination**

**SYLLABUS FOR UNIT TEST – 1** : Chapter 1

**SYLLABUS FOR UNIT TEST – 2** : Chapter 1,3,5

**SYLLABUS FOR HALF YEARLY EXAMINATION – Chapter**  
1,2,3,4,5,6,7,8

**SYLLABUS FOR PRE BOARD EXAMINATION – Whole syllabus**

## Subject – BIOLOGY

**Prescribed Book:** NCERT Biology

**Reference Book:** Exam Idea

**Lab Manual:** Biology Practical Comprehensive

### MARCH

- Chapter 1 - Sexual Reproduction in Flowering plants
- Lab Activity - 1. To study adaptations of flowers pollinated by different agencies (wind, 2. insect, birds etc.)  
To study pollen grain germination on stigma through a permanent slide
- 3. To study the pollen grain germination on a slide

### APRIL

- Chapter 2 - Human Reproduction
- Chapter 3 - Reproductive Health
- Lab Activity - 4. To study Meiosis in Onion bud through permanent slide
- 5. To perform emasculation bagging and tagging for controlled pollination
- 6. To study and identify the different stages of spermatogenesis from T.S of mammalian testis through permanent slide.
- 7. To study and identify the different stages of oogenesis from T.S of mammalian ovary through permanent slide

### MAY

- Chapter 4 - Principles of Inheritance and variation
- Chapter 5 - Molecular basis of Inheritance
- Lab Activity - 8. To study T.S of blastula through permanent slide
- 9. To study Mendelian Inheritance through seeds of different colour/sizes of pea plant
- 10. To study pedigree charts of genetic traits such as rolling of tongue, blood groups, ear lobes, widows peak and colour blindness etc.

Investigatory Project: Prepare an Investigatory Project of your choice after discussion/ approval with subject teacher

### JULY

- Chapter 6 - Evolution

- Chapter 9 - Biotechnology: Principles and Processes
- Chapter 10 - Biotechnology and its Applications
- Lab Activity - 11. To isolate /extract DNA from available plant material like onion, spinach, kiwi, strawberry etc.
- 12. Models specimen showing symbiotic association in root nodules of leguminous plants, cuscuta on host, lichens

### AUGUST

- Chapter 7 - Human health and disease
- Chapter 8 - Microbes in Human Welfare
- Lab Activity - 13. To prepare a temporary mount of the given root tip to study different stages of mitosis
- 14. To study and identify *Ascaris*, *Entamoeba histolytica*, *Plasmodium* and Ring worm comment on the symptoms and diseases caused by it.

### SEPTEMBER

#### **Half Yearly**

Revision and half yearly examination of chapter 1, 6, 8, 9, 10

### OCTOBER

- Chapter 11 - Organisms and Populations
- Chapter 12 - Ecosystem
- Chapter 13 - Biodiversity and Conservation
- Lab Activity - 15. Study the plant population density by quadrat method
- 16. Study the plant population frequency by quadrat method

### NOVEMBER

#### **Revision of whole Syllabus**

Pre-Board I

### DECEMBER

Pre-Board II

### EXAMINATION:

- UNIT TEST I CH – 1 & 2
- UNIT TEST II CH – 3, 4 and 5 (up to DNA as genetic material)
- HALF YEARLY CH – 1 - 6, 9 - 10
- PRE - BOARD I & II FULL SYLLABUS (CH 1 – 13)

## Subject – CHEMISTRY

### **PRESCRIBED BOOK: NCERT CHEMISTRY LAB MANUAL: COMPREHENSIVE: LAXMI PUBLICATION**

#### **MARCH**

- Unit - HALOALKANES AND HALOARENES
- Lab Activity - TO DETECT FUNCTIONAL GROUP PRESENT IN ORGANIC COMPOUND

#### **APRIL**

- Unit - ALCOHOL, PHENOL AND ETHER
- Unit - ALDEHYDES, KETONES AND CARBOXYLIC ACID
- Lab Activity - TO DETECT FUNCTIONAL GROUP PRESENT IN ORGANIC COMPOUND

#### **MAY**

- Unit - AMINES
- Unit - BIOMOLECULES
- Lab Activity - TO DETERMINE THE ACIDIC AND BASIC RADICALS IN THE GIVEN INORGANIC COMPOUNDS

#### **JULY**

- Unit - SOLUTIONS
- Unit - ELECTROCHEMISTRY
- Lab Activity - CHROMATOGRAPHY

#### **AUGUST**

- Unit - CHEMICAL KINETICS
- Lab Activity - TO DETERMINE THE BIOMOLECULES PRESENT IN THE GIVEN COMPOUNDS i.e., PROTEIN, STARCH, CARBOHYDRATES

#### **SEPTEMBER**

- Unit - D AND F BLOCK ELEMENTS
- Lab Activity - PROJECT FILES

## **OCTOBER**

Unit

Lab Activity

- COORDINATION COMPOUNDS
- REVISION OF ALL EXPERIMENTS

## **NOVEMBER**

REVISION

## **DECEMBER**

PRE-BOARD-1

## **JANUARY**

PRE-BOARD-2

### **SYLLABUS FOR EXAMS:**

#### **UT 1:**

HALOALKANES AND HALOARENES  
ALCOHOL, PHENOL AND ETHER

#### **UT 2:**

ALDEHYDES, KETONES AND CARBOXYLIC ACID  
AMINES

#### **HALF YEARLY:**

HALOALKANES AND HALOARENES  
ALCOHOL, PHENOL AND ETHER  
ALDEHYDES, KETONES AND CARBOXYLIC ACID  
AMINES  
BIOMOLECULES  
SOLUTIONS

### **PRE-BOARD: WHOLE SYLLABUS**



## Subject – PHYSICS

**PRESCRIBED BOOK : NCERT CHEMISTRY**

**LAB MANUAL: COMPREHENSIVE: LAXMI PUBLICATION**

### MARCH

- Unit-1 - Electric Charges and Fields
- Lab Activity - To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.

### APRIL

- Unit-2 - Electrostatics Potential and Capacitance
- Unit-3 - Current Electricity
- Lab Activity - To find resistance of a given wire using metre bridge and hence determine the resistivity of its material.

### MAY

- Unit-4 - Moving Charges and magnetism
- Unit-5 - Magnetism and Matter
- Lab Activity - To verify the laws of combination (series) of resistances using a metre bridge.  
OR  
- To verify the laws of combination (parallel) of resistances using a metre bridge

### JULY

- Unit-6 - Electromagnetic and Induction
- Unit-7 - Alternating Current
- Lab Activity - To determine the resistance of a galvanometer by the half- deflection method and to find its figure of merit

### AUGUST

- Unit-8 - Electromagnetic Waves
- Unit-9 - Ray Optics
- Unit-10 - Wave Optics
- Lab Activity - 1. To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length.

2. To find the focal length of a convex mirror, using a convex lens.
3. To find a diode, an LED, a resistor and a capacitor from the mixed collection of items.

## **OCTOBER**

- Unit-11 - Dual Nature of Radiation and matter
- Unit-12 - Atoms & Nuclei
- Unit-13 - Semiconductors
- Lab Activity - 1. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias.  
2. To draw the characteristic curve of a Zener diode and to determine its reverse break down voltage

## **REVISION**

### **DECEMBER**

PRE-BOARD-1

### **JANUARY**

PRE-BOARD-2

## **PRE-BOARD: WHOLE SYLLABUS**

## **Subject – PHYSICAL EDUCATION**

1. Health and Physical Education ,Class 12, Published by V.K SHARMA
2. Practical Work in Physical Education ,Class 12, Published by BIG THINK

### **THEORY**

#### **Part-A**

#### **Unit Fundamental of physical education**

- Unit 1: Management of Sporting Events
- Unit 2: Children & Women in Sports
- Unit 3: Yoga as Preventive Measure for lifestyle disease
- Unit 4: Physical Education & Sports for CWSN
- Unit 5: Sports & Nutrition
- Unit 6: Test & Measurement in Sports
- Unit 7: Physiology & Injuries in Sports
- Unit 8: Biomechanics and Sports
- Unit 9: Psychology and Sports
- Unit10: Training in Sports

#### **Part-B**

#### **Practical**

1. Physical fitness test: SAI khelo india Test, Brockport physical fitness test
2. Proficiency in games and sports  
(Skill of any one IOA recognized sports/games of choice)
3. Yogic practices
4. Record file
5. Viva voice (health/games & sports/yoga )

### **APRIL**

#### **A. Fundamental of physical education**

#### **Unit 1: Management of Sporting Events**

1. Function of sports events management (planning ,organizing, staffing, directing, controlling)
2. Various committees & their responsibilities (pre, during & post)
3. Fixtures and their procedure- knock-out (bye& seeding) & league (staircase, cyclic, tabular method) and combination tournaments.
4. Intramural & Extramural tournaments- meaning, objective& its significance
5. Community sports programme (sports day, health run, run for fun, run for unity)

## **Unit 2: Children & women in sports**

1. Exercise guidelines of WHO for different age group
2. Common postural deformities - knock knee; bow legs; flatfoot; Round shoulders; Lordosis, kyphosis, scoliosis and their corrective measures
3. Women's participation in sports- Physical, Psychological, and Social benefits.
4. Special consideration (menarche& menstrual dysfunction)
5. Female athlete triad (osteoporosis, amenorrhea , eating disorder)

## **SYLLABUS UNIT TEST 1**

### **Unit 1: Management of sporting events**

### **Unit 2: Children and women in sports**

## **MAY**

### **Unit 5: Sports & Nutrition**

1. Concept of balance of diet and nutrition
2. Macro and micro nutrients: food source & function
3. Nutritive and non-nutritive component of diet
4. Eating for weight control- A Healthy weight, the pitfall of dieting, food intolerance, and food myths.
5. Importance of diet in sports, pre, during and post competition requirements.

### **Unit 4: Physical education & sports for CWSN (children with special needs)**

1. Organizing promoting disability sports(special Olympics; Paralympics; deaflympic)
2. Concept of classification and divisioning sports
3. Concept of inclusion in sports , its need, and implementation.
4. Advantages of physical activities for children with special needs
5. Strategies to make physical activities assessable for children with special needs

## **JULY**

### **Unit 3: Yoga as preventive measure for lifestyle disease**

1. Obesity: Procedure, benefits & contraindication for Tadasana, katichakrasana, Pawanmuktasana ,Matsayasana, Halasana, Pachimottasana, Dhanurasana, Ardha-matsyendrasana
2. Diabetes : Procedure, benefits & contraindication for Tadasana, katichakrasana, Bhujangasana, Shalabhasana, Dhanurasana, Bhujangasasana, Ardha-matsyendrasana Pachimottasana, Kapalbhati

3. Asthma : Procedure, benefits & contraindication for Tadasana, Vakrasana, kapalbhati Bhujangasana, Shalabhasana, Dhanurasana, Gomukhasana, Matsyasana, Anulom-viloma, Uttanmandukasana
4. Hypertension : Procedure, benefits & contraindication for Tadasana, katichakrasana, Bhujangasana, Dhanurasana, Gomukhasana, Matsyasana, Ardha halasana, vakrasana, Uttanmandukasana, Shavasana, Sitlipranayama
5. Back Pain and Arthritis : Procedure, benefits & contraindication for Tadasana, ardhachakrasana, urdhawahastootanasana, ushtrasana, gomukhasana, bhadrasana, Makrasana, bhadrasana, bhujangasana, bhadrasana, nadishodhana pranayama.

## **SYLLABUS UNIT TEST 2**

### **Unit 5: Sports& nutrition**

### **Unit 4: Physical education for CWSN**

### **Unit 3: Yoga as preventive measure for lifestyle diseases**

## **AUGUST**

### **UNIT 7: Physiology and injuries in sports**

1. Physiological factor determining components of physical fitness
2. Effects of exercise on muscular system
3. Effects of exercise on cardio respiratory system
4. Physiological changes due to agieng
5. Sports injuries: classification (soft tissue injuries- abrasion, contusion, laceration, incision, sprain, strain: bone & joint injuries: dislocation, fracatures,- green stick, communitied, transverse oblique& impact)

### **Unit 8 : Biomechanics & sports**

1. Newtons law of motion & its application in sports
2. Types of Levers and their application in sports
3. Equilibrium-dynamic & static and centre of gravity and its application in sports
4. Friction & sports
5. Projectile in sports

## **SEPTEMBER**

### **Unit 9: Psychology & sports**

1. Personality; its definition & types (jung classification & big five theories)
2. Motivation, its types& technique
3. Exercise adherence: reasons, benefits, & strategies for enhancing it

4. Meaning, concept & types of aggression in sports
5. Psychological attributes in sports; self- esteem, mental imagery, self talk, goal setting

## **SYLLABUS HALF YEARLY EXAMINATION**

**Unit 1: Management of sporting events**

**Unit 2: Children and women in sports**

**Unit 5: Sports & nutrition**

**Unit 7: Physiology and injuries in sports**

**Unit 8: Biomechanics and sports**

## **OCTOBER**

**Unit 6: Test & measurement in sports**

1. Fitness test- SAI khelo india fitness test in school
2. Measurement of cardiovascular endurance
3. Computing basal metabolic rate (BMR)
4. Rikli & jones-senior citizen fitness test
5. Johnson – methney test for motor educability

**Unit 10: Training in sports**

1. Concept of talent identification and talent development in sports
2. Introduction to sports training cycle- Micro, Meso, Macro Cycle
3. Types & method to develop – strength, endurance, and speed
4. Types & method to develop- flexibility and coordinative ability
5. Circuit training – introduction & its importance

## **NOVEMBER**

**B. Practical work in Physical education file**

Practical 1: fitness administration

Practical 2: procedure for asanas, benefits & contraindication for any two asana for each lifestyle disease

Practical 3: any one IOA recognized sports /game of choice: labelled diagram of field & equipment also mention its rules, terminologies & skills.

## **PRE-BOARD 1**

**FULL SYLLABUS**

## **PRE-BOARD 2**

**FULL SYLLABUS**

## **DECEMBER**

**REVISION**

# **Subject – PSYCHOLOGY**

**PRESCRIBED BOOK** : Psychology, Class XII, Published by NCERT

## **MARCH & APRIL**

Unit-1 - **Variations in Psychological Attributes**

## **UT 1 SYLLABUS**

Unit-1 - **Variations in Psychological Attributes**

## **MAY**

Unit-2 - **Self and Personality**

## **JULY**

Unit-3 - **Meeting Life Challenges**

## **UT 2 SYLLABUS**

Unit-2 - **Self and Personality**

Unit-3 - **Meeting Life Challenges**

## **AUGUST**

Unit-4 - **Psychological Disorders**

## **SEPTEMBER**

Unit-5 - **Therapeutic Approaches**

## **HALF YEARLY EXAMINATION SYLLABUS**

Unit-1 - **Variations in Psychological Attributes**

Unit-2 - **Self and Personality**

Unit-3 - **Meeting Life Challenges**

Unit-4 - **Psychological Disorders**

Unit-5 - **Therapeutic Approaches**

## **OCTOBER**

Unit-6 - **Attitude and Social Cognition**

Unit-7 - **Social Influence and Group Processes**

## **NOVEMBER**

**Revision**

**PRE BOARD 1 SYLLABUS**

**Full Syllabus**

**PRE BOARD 2 SYLLABUS**

**Full Syllabus**

**DECEMBER**

**REVISION**

**INTERNAL ASSESSMENT**

- **Case File**
- **Practical File**



## **Subject – HISTORY**

**BOOK:** Themes in Indian history (Part 1, 2, 3) Ncert

### **MARCH**

#### **Week 4**

#### **CHAPTER 1 - BRICKS, BEADS AND BONES**

- Subsistence Strategies
- Mohenjodaro :A planned urban centre

### **APRIL**

#### **Week 1**

#### **CHAPTER 1 - BRICKS, BEADS AND BONES**

- Tracking social differences
- Craft production
- Procuring materials

#### **Week 2**

#### **CHAPTER 1 - BRICKS, BEADS AND BONES**

- Seals , script and weights and Ancient authority
- The end of civilisation and discovering the Harappan civilization

#### **Week 3**

#### **CHAPTER 2 - KINGS, FARMERS AND TOWNS**

- Prinsep and Piyadassi
- The earliest states
- An early empire
- New notions of Kingship

#### **Week 4**

#### **CHAPTER 2 - CONTINUED...**

- Changing countryside
- Towns and trade
- How are Inscriptions deciphered and Its limitation

### **MAY**

#### **Week 1**

#### **CHAPTER 3 - KINGSHIP, CASTE AND CLASS**

- The critical edition of Mahabharata
- Kinship and marriage
- Social difference

#### **Week 2**

#### **CHAPTER 3 - CONTINUED...**

- Beyond birth and resources and status
- Explaining social differences
- Handling texts
- Dynamic texts

### **Week 3**

#### **CHAPTER 4 - THINKERS, BELIEFS AND BUILDINGS**

- Glimpse of Sanchi
- The Background :Sacrifices and Debates
- The message of Mahavira
- The teachings of Buddha

### **Week 4**

#### **CHAPTER 4 - CONTINUED...**

- Followers of Buddha
- Stupas
- Discovering Stupas
- Sculpture
- New religious traditions

## **JULY**

### **Week 1&2**

#### **CHAPTER 5 - THROUGH THE EYES OF TRAVELLERS**

- Al- Biruni and Kitab –ul- Hind
- Ibn Battuta’s Rihla
- Francois Bernier
- Making sense of an Alien world
- Bernier and the Degenerate
- Women: Slaves , sati and labourers

### **Week 3**

#### **CHAPTER 6 - BHAKTI - SUFI TRADITIONS**

- A mosaic of Religious belief
- Poems of Prayers
- The Virashaiva Tradition
- The religious Ferment in North India

### **Week 4**

#### **CHAPTER 6 - CONTINUED...**

- New strands in the fabric :Islamic Traditions
- The growth of Sufism
- New Devotional paths
- Reconstructing Histories of Religious Traditions

## AUGUST

### **Week 1&2**

#### **CHAPTER 7 - AN IMPERIAL CAPITAL :VIJAYANAGARA**

- The discovery of Hampi
- Vijayanagara : The capital and its Environs
- The royal centre
- The sacred centres
- Plotting palaces , Temples and bazaars

### **Week 3&4**

#### **CHAPTER 8 - AGRARIAN SOCIETY AND THE MUGHAL EMPIRE**

- Peasants and Agricultural Production
- The village and community
- Women in Agrarian society
- Forest and tribes
- The Zamindars
- Land revenue system
- The flow of silver

## SEPTEMBER

### **Revision of Half Yearly Examination**

### **Half Yearly Examination**

## OCTOBER

### **Week 1**

#### **CHAPTER 9 - COLONIALISM AND THE COUNTRY SIDE**

- Bengal and the Zamindars
- The Hoe and Plough
- A revolt in the countryside
- The Deccan Riots Commission

### **Week 2**

#### **CHAPTER 10 - REBELS AND THE RAJ**

- Pattern of the Rebellion
- Awadh in revolt
- What the rebels wanted
- Repression
- Images of Revolt

### **Week 3**

#### **CHAPTER 11 - MAHATMA GANDHI AND THE MOVEMENT**

- A leader Announces himself
- Non - cooperation

- The Salt Satyagraha
- Quit India
- The last Heroic days and Knowing Gandhi

#### **Week 4**

#### **CHAPTER 12 - FRAMING THE CONSTITUTION**

- The Tumultuous time
- The vision of the constitution
- Defining Rights and powers of the State
- The Language of the Nation

#### **NOVEMBER**

**Revision of Pre board-1 Examination**

#### **DECEMBER**

**Pre board - 1 Examination**

**Revision of Pre board - 2 Examination**

#### **JANUARY**

**Pre board - 2 Examination**

#### **FEBRUARY**

**Revision of Final examination**

**SYLLABUS FOR UNIT TEST - 1 : Chapter 1 and 2**

**SYLLABUS FOR UNIT TEST - 2 : Chapter 3 and 4**

**SYLLABUS FOR HALF YEARLY EXAMINATION -**

Chapter 5, 6, 7 and 8

**SYLLABUS FOR PRE BOARD EXAMINATION - Complete Syllabus**

## Subject – GEOGRAPHY

**BOOK : FUNDAMENTAL OF HUMAN GEOGRAPHY  
INDIA PEOPLE AND ECONOMY AND GEOGRAPHY PRACTICAL-II**

### MARCH

**WEEK 4** - **Chapter - Human Geography**

### APRIL

**WEEK 1** - **Human Geography**

Nature and scope

**WEEK 2** - **The world population, density, distribution and Growth**

Population change

Demographic transition theory

Components of population change

**WEEK 3** - **Population distribution, density, growth and composition**

Composition of Population

Composition-Linguistic, occupational, Regional variation

**WEEK 4** - **Human settlements**

Rural settlements - Types and distribution

Urban settlements - Distribution and functional classification

### MAY

**WEEK 1** - **Human Development**

Concepts

Selected Indicators

International comparisons

**WEEK 2** - **Primary activities**

Concepts and changing trends

Pastoral, Mining, Gathering

Subsistence agriculture, Mixed farming (World)

**WEEK 3** - **Secondary activities**

Manufacturing types

Household, small scale and large scale Industries

Agro based and mineral based Industries

**WEEK 4** - **Land Resources and Agriculture**

General Land use

Condition of growing crops: Wheat, Rice, Jute,

## Cotton Agricultural development Problems

### JULY

#### WEEK 1

#### - **Tertiary and Quaternary Activities**

Trade , Transport and Tourism

People engaged in tertiary activities

#### WEEK 2

#### - **Transport, communication and Trade (World)**

Land transport, water transport, Continental railways

Suez canal and Panama Canal

Major ocean routes

#### WEEK 3

#### - **Water resources**

Availability and utilization, Irrigation

Industrial and other uses

Scarcity of water and conservation

#### WEEK 4

#### - **Mineral and Energy resources**

Distribution of metallic and non- metallic minerals

(Iron, copper, bauxite, Mica)

Coal, Petroleum and natural gas

Conventional sources of energy (Solar . wind , tidal and biogas) and conservation

### AUGUST

#### WEEK 1

#### - Planning and sustainable development in Indian context

Target group area planning

Case study

Idea of sustainable development

#### WEEK 2

#### - Transport and communication (India)

Air transport

Satellite and communication and cyber space

Ports of India

#### WEEK 3

#### - International trade (World)

Changing patterns of foreign trade

Sea ports and hinterland

Airports

#### WEEK 4

#### - Geographical perspective on selected issues and problems

Environmental pollution - Urban waste disposal

Urbanisation - Types of Pollution and Land

degradation

## **SYLLABUS**

### **Revision of Half Yearly Examination Half Yearly Examination**

#### **OCTOBER**

- WEEK 1                    - International trade (India)  
                                  Changing patterns of foreign trade  
                                  12 major sea ports of India and map work
- WEEK 2                    - Data - its source and Compilation and Data  
                                  processing
- WEEK 4                    - Geographical representations of data and Spatial  
                                  Information Technology

#### **NOVEMBER**

Revision of Pre board-1 Examination

#### **DECEMBER**

Pre board - 1 Examination

Revision of Pre board - 2 Examination

#### **JANUARY**

Pre board - 2 Examination

#### **FEBRUARY**

Revision of Final examination

**SYLLABUS FOR UNIT TEST - 1** : Human Geography, The world population, density, distribution and Growth and Population distribution, density, growth and composition

**SYLLABUS FOR UNIT TEST - 2** : Human settlements, Human development, primary activities and secondary activities

**SYLLABUS FOR HALF YEARLY EXAMINATION** : Land Resources and Agriculture, Tertiary and Quaternary Activities, Transport communication and Trade (World), Water resources, Mineral and Energy resources, Primary activities

**SYLLABUS FOR PRE BOARD EXAMINATION** : Complete syllabus

## Subject – POLITICAL SCIENCE

**PRESCRIBED BOOK:** POLITICAL SCIENCE (PART A & B), CLASS XII, PUBLISHED BY NCERT.

### MARCH & APRIL

#### **Part A: Contemporary World Politics**

##### **Ch 1: The End of Bipolarity**

- Disintegration of Soviet Union
- Unipolar World
- Middle East Crisis - Afghanistan, Gulf War
- Democratic Politics and Democratization – CIS and the 21st Century (Arab Spring)

##### **Ch 2: Contemporary Centres of Power**

- Organizations: European Union, ASEAN, SAARC, BRICS
- Nations: Russia, China, Israel, India, Japan and South Korea

#### **Part B: Politics in India since Independence**

##### **Ch 1: Challenges of Nation-Building**

- Nation and Nation Building
- Sardar Vallabh Bhai Patel and Integration of States
- Nehru's approach to nation-building
- Legacy of partition: challenge of 'refugee' Resettlement, the Kashmir problem
- Political conflicts over language
- Linguistic Organisation of States

### SYLLABUS:

#### UNIT TEST 1

##### **Ch 1: The End of Bipolarity**

##### **Ch 1: Challenges of Nation-Building**

### MAY

#### **Part B: Politics in India since Independence**

##### **Ch 2: Era of One- Party Dominance**

- One Party Dominance
- Bi-Party System
- Multi-Party Coalition System

#### **Part A: Contemporary World Politics**

##### **Ch 3: Contemporary South Asia**

- Conflicts and efforts for Peace in South Asia: Pakistan,



Nepal, Bangladesh, Sri Lanka, Maldives

## **JULY**

### **Part B: Politics in India since Independence**

#### **Ch 3: Politics of Planned Development**

- Changing nature of India's Economic Development
- Planning Commission and Five Year Plans
- National Development Council
- NITI Aayog

### **Part A: Contemporary World Politics**

#### **Ch 4: International Organizations**

- Principal Organs
- Key Agencies: UNESCO, UNICEF, WHO, ILO, Security Council and the Need for its Expansion

### **Part B: Politics in India since Independence**

#### **Ch 4: India's External Relations**

- Principles of Foreign Policy
- India's Changing Relations with Other Nations: US, Russia, China, Israel
- India's Relations with its Neighbours: Pakistan, Bangladesh, Bhutan, Nepal, Sri Lanka and Myanmar
- India's Nuclear Programme

## **SYLLABUS**

### **UNIT TEST 2**

#### **Ch 2: Era of One-Party Dominance**

#### **Ch 3: Politics of Planned Development**

#### **Ch 3: Contemporary South Asia**

## **AUGUST**

### **Part A: Contemporary World Politics**

#### **Ch 5: Security in Contemporary World**

- Security: Meaning and Type
- Terrorism

## **SEPTEMBER**

### **Part B: Politics in India since Independence**

#### **Ch 5: Challenges to and Restoration of the Congress System**

- Jaya Prakash Narayan and Total Revolution
- Ram Manohar Lohia and Socialism

- Pandit Deendayal Upadhyaya and Integral Humanism
- National Emergency
- Democratic Upsurges - Participation of the Adults, Backwards and Youth

### **Part A: Contemporary World Politics**

#### **Ch 6: Environment and Natural Resources**

- Environmental Movements
- Global Warming and Climate Change
- Conservation of Natural Resources

## **SYLLABUS**

### **Half yearly Examination**

#### **Ch 2: Contemporary Centres of Power**

#### **Ch 3: Contemporary South Asia**

#### **Ch 4: International Organizations**

#### **Ch 5: Security in the Contemporary World**

#### **Ch 1: Challenges of Nation-Building**

#### **Ch 2: Era of One-Party Dominance**

#### **Ch 3: Politics of Planned Development**

#### **Ch 4: India's External Relations**

## **OCTOBER**

### **Part B: Politics in India since Independence**

#### **Ch 6: The Crisis of Democratic Order**

- Emergency
- Economic Context
- Lessons of the Emergency
- Politics after Emergency

#### **Ch 7: Regional Aspirations**

- Rise of regional parties
- Punjab Crisis
- The Kashmir Issue
- Movements for Autonomy

#### **Ch 8: Recent Developments in Indian Politics**

- Era of Coalitions
- National Front
- United Front
- United Progressive Alliance (UPA) – I & II, National Democratic Alliance (NDA) I, II, III & IV
- Issues of Development and Governance

## **NOVEMBER**

### **Part A: Contemporary World Politics**

#### **Ch 7: Globalization**

- Globalization: Meaning
- Manifestation and Debates

### **PRE - BOARD I FULL SYLLABUS**

### **PRE - BOARD II FULL SYLLABUS**

## **DECEMBER**

Revision

## **Subject – ACCOUNTANCY**

**PRESCRIBED BOOK: D.K. GOEL**

**VOLUME I: ACCOUNTING FOR NON- PROFIT ORGANISATION AND PARTNERSHIP FIRM**

**VOLUME II: ACCOUNTING FOR COMPANIES**

**VOLUME III: ANALYSIS OF FINANCIAL STATEMENTS AS PER SCHEDULE III COMPANIES ACT 2013**

### **MARCH & APRIL**

#### **Part A: Accounting for Partnership Firms and Companies**

##### **Unit 1: Accounting for Partnership Firms**

- Partnership: features, Partnership Deed.
- Provisions of the Indian Partnership Act 1932 in the absence of partnership deed.
- Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriation account- division of profit among partners, guarantee of profits.
- Past adjustments (relating to interest on capital, interest on drawing, salary and profit sharing ratio).
- Goodwill: meaning, nature, factors affecting and methods of valuation - average profit, super profit and capitalization.
- Note: Interest on partner's loan is to be treated as a charge against profits.
- Goodwill: meaning, factors affecting, need for valuation, methods for calculation (average profits, super profits and capitalization) , adjusted through partners capital/ current account or by raising and writing off goodwill (AS 26)
- Change in the Profit Sharing Ratio among the existing partners - sacrificing ratio, gaining ratio, accounting for revaluation of assets and reassessment of liabilities and treatment of reserves, accumulated profits and losses. Preparation of revaluation account and balance sheet.
- Provisions of the Indian Partnership Act 1932 in the absence of partnership deed.

### **SYLLABUS:**

#### **UNIT TEST 1**

Unit 1: Accounting for Partnership Firms

Partnership and Provisions of the Indian Partnership Act 1932 in the absence of partnership deed.

Fixed v/s fluctuating capital accounts.  
Past adjustments  
Goodwill

## MAY

### **Unit 1: Accounting for Partnership Firms**

- Accounting for Partnership firms - Reconstitution and Dissolution.
- Admission of a partner - effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, treatment of reserves, accumulated profits and losses, adjustment of capital accounts and preparation of capital, current account and balance sheet.

## JULY

- Retirement and death of a partner: effect of retirement / death of a partner on change in profit sharing ratio, treatment of goodwill (as per AS 26), treatment for revaluation of assets and reassessment of liabilities, adjustment of accumulated profits, losses and reserves, adjustment of capital accounts and preparation of capital, current account and balance sheet. Preparation of loan account of the retiring partner.
- Retirement and death of a partner:
  - Calculation of deceased partner's share of profit till the date of death. Preparation of deceased partner's capital account and his executor's account.
  - Dissolution of a partnership firm: meaning of dissolution of partnership and partnership firm, types of dissolution of a firm. Settlement of accounts - preparation of realization account, and other related accounts: capital accounts of partners and cash/bank a/c (excluding piecemeal distribution, sale to a company and insolvency of partner(s)).

Note:

- (i) If the realized value of tangible assets is not given it should be considered as realized at book value itself.
- (ii) If the realized value of intangible assets is not given it should be considered as nil (zero value).
- (ii) In case, the realization expenses are borne by a partner,

clear indication should be given regarding the payment thereof.

## **SYLLABUS**

### **UNIT TEST 2**

Change in profit sharing ratio

Admission of partner

Retirement of partner

## **AUGUST**

### **Unit-3 Accounting for Companies**

- Accounting for Share Capital
  - Features and types of companies
  - Share and share capital: nature and types.
  - Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash.
  - Concept of Private Placement and Employee Stock Option Plan (ESOP), Sweat Equity.
  - Accounting treatment of forfeiture and reissue of shares.
  - Disclosure of share capital in the Balance Sheet of a company

### **Unit-3 Accounting for Companies**

- Accounting for Debentures
  - Debentures: Meaning, types, Issue of debentures at par, at a premium and at a discount. Issue of debentures for consideration other than cash; Issue of debentures with terms of redemption; debentures as collateral security concept, interest on debentures. Writing off discount / loss on issue of debentures. Note: Discount or loss on issue of debentures to be written off in the year debentures are allotted from Security Premium Reserve (if it exists) and then from Statement of Profit and Loss as Financial Cost (AS 16)

## **SEPTEMBER**

### **Part B: Financial Statement Analysis**

#### **Unit 4: Analysis of Financial Statements**

- Financial statements of a Company: Meaning, Nature, Uses and importance of financial Statement.

- Statement of Profit and Loss and Balance Sheet in prescribed form with major headings and sub headings (as per Schedule III to the Companies Act, 2013)
- Note: Exceptional items, extraordinary items and profit (loss) from discontinued operations are excluded.
  - Financial Statement Analysis: Meaning, Significance Objectives, importance and limitations.
  - Tools for Financial Statement Analysis: Cash flow analysis, ratio analysis.
  - Accounting Ratios: Meaning, Objectives, Advantages, classification and computation.
  - Liquidity Ratios: Current ratio and Quick ratio.
  - Solvency Ratios: Debt to Equity Ratio, Total Asset to Debt Ratio, Proprietary Ratio and Interest Coverage Ratio. Debt to Capital Employed Ratio.
  - Activity Ratios: Inventory Turnover Ratio, Trade Receivables Turnover Ratio, Trade Payables Turnover Ratio, Fixed Asset Turnover Ratio, Net Asset Turnover Ratio and Working Capital Turnover Ratio.
  - Profitability Ratios: Gross Profit Ratio, Operating Ratio, Operating Profit Ratio, Net Profit Ratio and Return on Investment.
- Note: Net Profit Ratio is to be calculated on the basis of profit before and after tax

## **SYLLABUS**

### **Half yearly Examination**

Accounting for partnership firm

Accounting for companies

## **OCTOBER**

### **Unit 5: Cash Flow Statement**

- Comparative and common size statement
- Meaning, objectives Benefits, Cash and Cash Equivalents, Classification of Activities and preparation (as per AS 3 (Revised) (Indirect Method only)
- Note: (i) Adjustments relating to depreciation and amortization, profit or loss on sale of assets including investments, dividend (both final and interim) and tax. (ii) Bank overdraft and cash credit to be treated as short term borrowings.

(iii) Current Investments to be taken as Marketable securities unless otherwise specified.

- Note: Previous years' Proposed Dividend to be given effect, as prescribed in AS-4, Events occurring after the Balance Sheet date. Current years' Proposed Dividend will be accounted for in the next year after it is declared by the shareholders

## **NOVEMBER**

Revision

Unit 13: Project Work

SPECIFIC PROJECT I

SPECIFIC PROJECT II

## **DECEMBER**

### **PRE- BOARD I**

FULL SYLLABUS(VOLUME I, II,III)

### **PRE- BOARD II**

FULL SYLLABUS(VOLUME I, II,III)



## Subject – ECONOMICS

### Prescribed Books:

1. Indian Economic Development, NCERT
2. Macroeconomics, NCERT

### Reference Books:

1. Introductory Macroeconomics by Sandeep Garg
2. Indian Economics development by TR Jain and VK Ohri

### MARCH & APRIL

#### Part A: Introductory Macroeconomics

##### Unit 2: Money & Banking.

- Money – meaning and functions
  - Understand the concept of money.
- Supply of Money
  - Explain the meaning and theories of money supply and money demand.
- Money Creation by The Commercial Banking System
  - Provides an insight into banking system.
- Central Bank and its Functions, Working of monetary policy
  - Discuss Central Bank and its main functions like Bank of issue, Govt. Bank, Banker's Bank.
  - Explain control of credit through Bank Rate, CRR, SLR, Repo Rate, Open Market Operations, margin Requirements.

##### UNIT 4: Government Budget and the Economy

- Government Budget - Meaning, Objectives and Components
  - Explain the meaning of government budget
  - Discuss the objectives and components of govt. budget.
- Classification of Receipts – Revenue Receipts and Capital Receipts
  - Understand the classification of revenue and capital receipts.
- Classification of Expenditure – Revenue Expenditure and Capital Expenditure
  - Describe the classification of revenue and capital expenditure.
- Balanced, Surplus and Deficit Budget – Measures of Government Deficit
  - Discuss the Budget deficit and its types-revenue, fiscal and primary.

## **Part B: Indian Economic Development**

### **Unit 6: Development Experience (1947-90) & Economic Reforms since 1991.**

- A brief Introduction of the state of Indian Economy on the eve of Independence.
  - Discuss the state of Indian economy on the eve of independence.
  - Describe agriculture sector, industrial sector, foreign trade on the eve of independence.
  - Explain the demographic conditions, occupational structure and infrastructure during the British rule.
  - Examine the positive impacts of British rule in India.
- Indian economic system and common goals of Five-Year Plans.
  - Explain the meaning of economic system and economic planning.
  - Describe the short term and long -term goals of five- year plans.
  - Evaluation of achievements of goals of five- year plans.
- Main features, Problems and Policies of Agriculture, Industry and Foreign Trade.
  - Explain institutional aspects and new agricultural strategy.
  - Describe IPR-1956.
  - Discuss the role and importance of small-scale industry.
  - Describe the trade policy: Import Substitution.
  - Discuss India's foreign trade at the time of independence and after independence.
  - Critical appraisal of economic planning till 1991.
- Features and Appraisals – Liberalisation, Globalisation & Privatisation (LPG Policy)
  - Understand the need for economic reforms.
  - Discuss the New economic policy (LPG).
  - Critical appraisal of the new economic policy.
- Concepts – Demonetization and GST
  - Understand the concept of demonetization and GST.

## **MAY**

### **Part A: Introductory Macroeconomics**

#### **Unit 1: National Income & Related Aggregates.**

- Basic Concepts of Macroeconomics - Consumption goods, Capital goods, Final goods, Intermediate goods, Stocks and Flows, Gross Investment and Depreciation.
  - Give the meaning of basic concepts of macroeconomics.
  - Distinction between consumption and capital goods, final goods and intermediate goods, stock and flow.
  - Understand the concepts of gross investment and depreciation.
- Circular flow of income (two sector model), Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method.
  - Explain the meaning and phases of circular flow.
  - Describe the models of circular flow of income (two sector model in simple economy).
  - Explain the methods of calculating national income by product method, expenditure method and income method
  - Treatment of different items in the calculation of national income.
  - Reconciliation of three methods of measuring national income.
- Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at Market Price, at Factor Cost; Real and Nominal GDP.
  - Describe the aggregates related to national income.
  - Understand the concept of national income at current prices and constant prices.
- GDP and Welfare
  - Discuss the limitations related to the positive relationship between GDP and welfare.

## **JULY**

### **Part A: Introductory Macroeconomics**

#### **Unit 5: Balance of Payments**

- Balance of payments account - Meaning and Components
  - Explain the meaning and components of Balance of Payment account.
  - Difference between BOP current account and BOP capital account.
  - Difference between autonomous and accommodating items.

- Balance of payments – Surplus and Deficit
  - Discuss surplus and deficit balance of payment account.
  - Describe the causes of disequilibrium in BOP.
- Foreign Exchange Rate - Meaning of Fixed and Flexible Rates and Managed Floating
  - Give the meaning of foreign exchange and foreign exchange rate.
  - Describe the types of foreign exchange rates.
- Determination of Exchange Rate in a Free Market, Merits and Demerits of Flexible and Fixed Exchange Rate.
  - Explain how to determine the equilibrium rate of foreign exchange.
  - Describe causes of change in rate of foreign exchange.
- Managed Floating Exchange Rate System.
  - Understand the concept of managed exchange rate system.

## **Part B: Indian Economic Development**

### **Unit 7: Current challenges facing Indian Economy**

- Human Capital Formation: How people become resource; Role of human capital in economic development; Growth of Education Sector in India
  - Understand the meaning of human capital formation.
  - Explain the sources and importance of human capital formation.
  - Discuss the problems facing human capital formation.
  - Discuss the education sector in India-importance, growth and challenges in education.
- Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification; alternative farming - organic farming
  - Give the meaning of rural development.
  - Discuss various challenges for rural development.
  - Critical appraisal of rural credit.
  - Explain rural marketing system.
  - Understand the diversification of crop production and production activity.
  - Describe sustainable development and organic farming Benefits and challenges.
- Employment: Growth and changes in work force participation rate in formal and informal sectors; problems and policies
  - Give the meaning of basic concepts of employment.
  - Discuss the growth and changing structure of employment.

- Describe the informalisation of Indian workforce.
- Discuss the causes and effects of unemployment in India.
- Suggestions to solve the problem of unemployment and government policies and programs in employment generations.
- Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming
  - Understand the meaning and functions of environment.
  - Discuss various environmental crisis including global warming.
  - Discuss various causes of environmental degradation.
  - Explain meaning, features, and strategies for sustainable development.

## **AUGUST**

### **Part B: Indian Economic Development**

#### **Unit 8: Development Experience of India**

- A comparison with neighbours. India and Pakistan
  - Discuss the development path of Pakistan.
  - Comparison of the demographic, growth and human development indicators.
- A comparison with neighbours. India and China
  - Discuss the development path of China.
  - Comparison of the demographic, growth and human development indicators
- Issues: economic growth, population, sectoral development and other Human Development Indicators.
  - Discuss the development strategies of neighbours- an appraisal and analysis.

## **SEPTEMBER** **REVISION**

## **OCTOBER**

### **Part A: Introductory Macroeconomics**

#### **Unit 3: Determination of Income and Employment**

- Aggregate demand and its components.
  - Explain meaning and components of aggregate demand and aggregate supply.

- Propensity to consume and propensity to save (average and marginal).
  - Describe the meaning of consumption function and saving function.
  - Derivation of the saving function from the consumption function.
- Short-run equilibrium output; investment multiplier and its mechanism.
  - Determination of the equilibrium level of income, output, employment.
  - Explain the meaning of investment multiplier and its working.
- Meaning of full employment and involuntary unemployment.
  - Understand the meaning of full employment and involuntary unemployment.
- Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply.
  - Explain the meaning of excess demand/ inflationary gap.
  - Describe the meaning of deficient demand/ deflationary gap.
  - Describe the various policy measures to control excess demand and deficient demand.

## **NOVEMBER**

**Revision for Pre-Board I Examination**

## **DECEMBER**

**Pre-Board I Examination**

**Revision for Pre-Board II Examination**

## **JANUARY**

**Pre-Board II Examination**

## **FEBRUARY**

**Revision for Final Examination**

## **SYLLABUS:**

Unit Test 1- Unit 2 and Unit 6 (Ch-1)

Unit Test 2- Unit 1 and Unit 6 (Ch-2 & 3)

Half Yearly- Unit 1,2,4,5,6,7 (half)

Pre-Board 1- Full Syllabus (Unit 1 to Unit 8)

Pre-Board 2- Full Syllabus (Unit 1 to Unit 8)

## **Subject – FINE ARTS**

### **APRIL**

#### **Theory**

The Origin and Development of Miniature painting  
Six limbs of Indian painting & The Rajasthani school of miniature painting

#### **Practical**

Still life (Pencil shading), Composition (panharan )

### **MAY**

#### **Theory**

The Pahari school of Miniature painting

#### **Practical**

Landscape (Water color) Composition (Budhha)

### **JULY**

#### **Theory**

The Mughal school of Miniature painting  
The Deccan school of Miniature painting

#### **Practical**

Still life, Composition (Bani thani)

### **AUGUST**

#### **Theory**

Introduction to the Bengal school of Painting  
Study of the painting of the Bengal school

#### **Practical**

Still life, Landscape, Composition (Bus stop)

### **SEPTEMBER**

#### **Theory**

Contribution of Indian Artists in the struggle for National freedom movement  
Evolution of the Indian National Flag

#### **Practical**

Still life, Composition (Tea Stall)

### **OCTOBER**

#### **Theory**

Modern Trades in Indian Art

**Practical**

Madhubani Art, Warli Art, Mandala Art

**NOVEMBER****Theory**

Paintings of the Contemporary Indian Artists

**Practical**

Abstract Art, Logo design, Still life (Charcol pencil)

**DECEMBER****Theory**

Graphic Prints of the Contemporary Indian Artists

**Practical**

Still life, Landscape, composition

**JANUARY****Theory**

Sculptures of the Contemporary Indian Artists

**Practical**

Portfolio Decoration