

## **Half-Yearly Syllabus – 2021-22**

### **MATHS – IA**

- 1) Functions –
- 3) Matrices –
- 6) Trigonometry – upto Transformations
- 9) Hyperbolic Functions

## **Half-Yearly Syllabus – 2021-22**

### **Maths – IB**

- 1) Locus
- 3) Straight lines
- 4) Pair of straight Lines
- 5) 3 – D Co – Ordinates
- 6) D.C's and D.R's
- 7) The Plane
- 8) Limits and Continuity

## **Half-Yearly Syllabus – 2021-22**

### **MATHS – IIA**

- 1) Complex Numbers
- 2) Demoivre's Theorem
- 3) Quadratic Expressions
- 4) Theory of Equations
- 5) Permutations and Combinations

## **Half-Yearly Syllabus – 2021-22**

### **Maths – IIB**

- 1) Circles
- 2) System of Circles
- 6) Integration
- 7) Definite Integrals

## Half-Yearly Syllabus – 2021-22

### BOTANY - I

UNIT	CHAPTERS	TOPICS
I.		Diversity in Living world
	1.	The Living World (Except deleted topics)
	2.	Biological Classification
	3.	Science of Plants - Botany
	4.	Plant Kingdom (Except deleted topics)
II.		Structural Organisation in Plants – Morphology
	5.	Morphology of Flowering Plants
III.		Reproductions in Plants.
	7.	Sexual reproduction in Flowering plants.

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### BOTANY - II

UNIT	CHAPTERS	TOPICS
I.		Plant Physiology
	1.	Transport in Plants
	3.	Enzymes
	4.	Photosynthesis in Higher Plants
	5.	Respiration in Plants
	6.	Plant Growth and Development (Except deleted topics)
II.		Microbiology
	7.	Bacteria
	8.	Viruses
VI		Plants, Microbes and Human Welfare
	13.	Strategies for Enhancement in Food Production (Plant Breeding and Tissue culture essays only)

## Half-Yearly Syllabus – 2021-22

### ZOOLOGY - I

UNIT	TOPICS
I.	Diversity of Living world
II.	Structural Organization in Animals
III.	Animal Diversity – I
VI.	Biology in Human welfare

## Half-Yearly Syllabus – 2021-22

### ZOOLOGY - II

UNIT		TOPICS
I.		Human Anatomy and Physiology – I
	IB	Breathing and Respiration
II.		Human Anatomy and Physiology – II
	IIA	Body Fluids and Circulation
	IIB	Excretory Products and their elimination
III.		Human Anatomy and Physiology – III
	IIIA	3.1 The muscle
	IIIB	3.5 Human neural system
		3.6 Generation and conduction of Nerve impulse
IV		Human Anatomy & Physiology – IV
	IVA	Endocrine system and chemical Co-Ordination
	IVB	Immune system
V		Human Reproduction
	VA	Human Reproductive System
	VB	Reproductive Health

## **Half-Yearly Syllabus – 2021-22**

### **PHYSICS - I**

<b>S. NO.</b>	<b>TOPICS</b>
1.	PHYSICAL WORLD
2.	UNITS AND MEASUREMENTS
3.	MOTION IN A STRAIGHT LINE
4.	MOTION IN A PLANE
5.	LAWS OF MOTION
6.	WORK, ENERGY AND POWER
7.	SYSTEM OF PARTICLES & ROTATIONAL MOTION
8.	OSCILLATIONS

## **Half-Yearly Syllabus – 2021-22**

### **PHYSICS - II**

<b>S. NO.</b>	<b>TOPICS</b>
1.	WAVES
2.	RAY OPTICS AND OPTICAL INSTRUMENTS
3.	WAVE OPTICS
4.	ELECTRIC CHARGES AND FIELDS
5.	ELECTROSTATIC POTENTIAL AND CAPACITANCE
6.	CURRENT ELECTRICITY
7.	MOVING CHARGES AND MAGNETISM
8.	MAGNETISM AND MATTER

## **Half-Yearly Syllabus – 2021-22**

### **CHEMISTRY - I**

<b>S. NO.</b>	<b>TOPICS</b>
1.	ATOMIC STRUCTURE
2.	CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES
3.	CHEMICAL BONDING AND MOLECULAR STRUCTURE
4.	STATES OF MATTER: GASES AND LIQUIDS
5.	STOICHIOMETRY

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### **CHEMISTRY - II**

<b>S. NO.</b>	<b>TOPICS</b>
1.	Solid State
2.	Solutions
3.	Electrochemistry and Chemical Kinetics
4.	Surface Chemistry
5.	p – block elements
	a) Group – 15 elements
	b) Group – 16 elements
	c) Group – 17 elements
	d) Group – 18 elements

## **Half-Yearly Syllabus – 2021-22**

### **ECONOMICS - I**

Unit – I	Introduction
Unit – II	Theory of Consumers Behaviour
Unit – III	Theory of Demand
Unit – IV	Theory of Value

## **Half-Yearly Syllabus – 2021-22**

### **ECONOMICS - II**

Chapter – 1	Economic Growth & Development
Chapter – 2	Population and Human Resource Development
Chapter – 3	National Income
Chapter – 4	Agriculture Sector
Chapter – 5	Industrial Sector

## **Half-Yearly Syllabus – 2021-22**

### **COMMERCE - I**

1. Concept of Business
2. Business Activities
3. Forms of Business Organization
4. Partnership
5. Joint Stock Company – formation

## **Half-Yearly Syllabus – 2021-22**

### **ACCOUNTANCY - I**

1. Book Keeping and Accounting
2. Accounting Principles
3. Double Entry Book Keeping System
4. Journal
5. Ledger
6. Subsidiary Books
7. Journal Proper
8. Cash Book

## **Half-Yearly Syllabus – 2021-22**

### **COMMERCE - II**

1. Entrepreneurship
2. Domestic and International trade
3. Business Services

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### **ACCOUNTANCY - II**

1. Bills of Exchange
2. Depreciation
3. Consignment
4. Not – For – Profit Organization
5. Accounts from incomplete Records (Single Entry)

## Half-Yearly Syllabus – 2021-22

### CIVICS - I

<b>Chapter-I Scope and Significance of Political Science</b>	<b>Page No</b>
1.0 Introduction	
1.1 Origin and Definitions	1 to 11
1.2 Nature of Political Science	
1.3 Scope of Political Science	
<b>Chapter – II State</b>	
2.0 Introduction	
2.1 Definitions of State	17 to 24
2.2 Essential Elements of State	
2.3 Other Elements of State	
2.4.1 State Vs Society	- 24 to 227
2.4.3 State and Government	- 30 to 33
<b>Chapter – III Nationalism</b>	
3.0 Introduction	
3.1 Nation	- 35 to 44
3.2 Nationality	
3.5 Is India a nation State	- 50 to 51



## **Chapter – 6 Rights and Responsibilities**

6.0 Introduction

6.1 Meaning of Rights

6.2 Definition of Rights

6.3 Features of Rights

6.4 Classification of Rights

6.5 Important Civil Rights - 89 to 101

6.6 Important Political Rights

6.7 Important Economic Rights

6.8 Fundamental Rights

6.9 Safeguards of Rights

6.11.0 Responsibilities

6.11.1 Types of Responsibilities - 107 to 109

6.11.2 Important Responsibilities of a Citizen

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### CIVICS - II

<b>Chapter-I</b>	<b>The Constitution of India</b>	<b>Page No</b>
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1.0	The Constitution	- 1 - 2
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1.3 The Making of Indian Constitution

1.4	Sources of Indian Constitution	- 5 - 11
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1.5 Preamble of Indian Constitution

1.6 Salient features of Indian Constitution

### **Chapter – 2 Fundamental Rights and Directive Principles of State Policy**

2.0 Introduction

2.1 Fundamental Rights

2.1.1 Evolution of Fundamental Rights

2.1.3 Analysis of Fundamental Rights

2.1.4	Restrictions of Fundamental Rights	- 13 - 29
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2.1.5 Significance of Fundamental Rights

2.2 Directive Principles of State Policy

2.2.1 Evolution of Directive Principles

2.2.2 Characteristic features of Directive Principles

2.2.3	Types of Directive Principles	
2.2.4	Significance of Directive Principles	
2.2.5	Differences between Fundamental Rights and Directive Principles	- 13-29
2.2.6	Relationship between Fundamental Rights and Directive Principles	
2.3	Fundamental Duties	- 31-33
2.3.2	Significance of Fundamental Duties	

### **Chapters – 3 Union Executive**

3.0	Introduction	
3.1	Union Executive	
3.2	The President of India	- 35 - 53
3.3	The Vice – President	
3.4	The Prime Minister	

### **Chapter – 4 Union Legislature**

4.0	Introduction	
4.1	Union Legislature	
4.2	Unique Features of Union Legislature	63-85
4.3	Lok Sabha	
4.4	Speaker of Lok Sabha	

4.5	Rajya Sabha	
4.6	Chairman of Rajya Sabha	
4.7	Powers and Functions of Union Legislature	63-85
4.8	Types of bills	
4.9	Law making Procedure in Parliament	
4.10	Important matters in the Parliament	
4.13	Significance of Union Legislature	- 89

## **Chapter – 5 Union Judiciary**

5.0	Introduction	
5.1	The Supreme Court of India	
5.2	Powers and Functions of the Supreme Court	- 92 - 103
5.3	Judicial Review	
5.5	Public Interest Litigation (PIE)	- 106 - 108
5.6	Independent Judiciary	

## **Chapter – 6 State Executive**

6.0	Introduction	
6.1	State Executive	
6.2	The Governor	- 111 - 128
6.3	Powers and Functions of the Governor	
6.4	The chief Minister	

- 6.5 Powers and Functions of Chief Minister
- 6.6 Relationship with Governor
- 6.7 Position and Significance of Chief Minister
- 6.10 Position of the State Council of Ministers
- 6.11 Relationship between the Governor and the State Council of Ministers - 133-134

**Chapter – 7 State Legislature - 135 - 149**

- 7.0 Introduction
- 7.1 Legislative Assembly
- 7.2 Powers and Functions of State Legislative Assembly
- 7.3 Legislative Council
- 7.4 Powers and Functions of State Legislative Council 135-149
- 7.5 Supremacy of Legislative Assembly over the Legislative Council
- 7.6 Position of the State Legislature
- 7.7 Brief History of Andhra Pradesh Legislature

## **Half-Yearly Syllabus – 2021-22**

### **HISTORY - I**

1. What is History
2. Ancient civilizations and Cultures
3. Early States, Empires and Economy
4. Early Societies and Religious Movements
5. Polity, Economy, Society and Culture from 3<sup>rd</sup> century BC to 7<sup>th</sup> century AD
6. Deccan and south India upto 10<sup>th</sup> Century AV

## **Half-Yearly Syllabus – 2021-22**

### **HISTORY - II**

1. Early History of mankind
2. The Oldest Civilization in World – Mesopotamia
3. An Empire Across Three continents
4. The control Islamic Lands
5. Nomadic Empire mongols, Chinghis Khan
6. Feudalism in Europe
7. The Beginning of Modern age
8. French Revolution 1789

## HALF YEARLY SYLLABUS FOR ENGLISH

### FIRST YEAR SYLLABUS

- PROSE : 1) Letter to His son's teacher  
2) She conquered the Everest
- POETRY : 1) Common wealth of Bees  
2) This is my Prayer to Thee, My Lord
- Non – Detailed : Engine Trouble
- Comprehensions : The passages given at the end of 1<sup>st</sup> and 2<sup>nd</sup> prose lessons and 1<sup>st</sup> and 2<sup>nd</sup> poems.
- Grammar : Parts of Speech : 1 to 20 sentences given in Exercise – 1 in Text pg. 141.
- Articles : 1 to 20 sentences given in the Exercise – 1 in Text pg. 146.  
Prepositions : Exercise – 1 given in text page 155 and 156.
- Verb Forms : Practice exercises on simple present and simple past given in text pg. 166.
- Voice : Exercise – II in text pg. 181 & 182.
- Question Tags : Exercises 1 and 2 given in text pgs 205 & 206.
- Phrasal Verbs : The phrasal verbs given with meaning and examples in the text pg. 209.
- Correction of Sentences : 1 to 50 sentences given in text pg. 212 and 213.
- Communication Skills : Word power(Matching) – The vocabulary give in prose 1, 2 lessons  
1,2 poems
- Silent consonants : 1 to 30 words given in text page 234.
- Syllabus : 1- 50 words given in exercise -1 text page 239.
- Information Transfer : paragraph to pie chart
- Completing dialogue : 1- 5 exercises given in text pages 268, 269, 270.

**Question no. 18 Odd Sounds in Exercise – I text book page no. 226, From 1 to 50**

**HALF YEARLY SYLLABUS FOR ENGLISH**  
**SECOND YEAR SYLLABUS**

PROSE	:	1) Of Studies	:	FRANCIS BACON
		2) The secret of work	:	Swami Vivekananda
POETRY	:	1. The Tables Turned	:	William Wordsworth
		2. The Builders	:	Henry Wadsworth Long Fellow

NON DETAILED :

About the Adventures of Tom Sawyer

- 1) Character sketch of Tom Sawyer
- 2) Describe in detail the major incidents in which Tom and Herick were involved ?

GRAMMAR :

	P. No.	Ex. No.
1. Conversation practice	: 140-142	- 1 to 5
2. Letter writing	: 159-162	- 2 to 5
3. Word Stress	: 171	- I –
4. Reading Comprehension	: 174 – 180	- 1 to 10
5. Non verbal information	: 193 – 198	-
6. The language of Advertisements	: 208 – 215	- 1 to 11
7. Vocabulary	: 231 – 233	- 1 to 10
8. Describing process	: 241	- 1 to 05
9. Note making	: 247 – 250	- 1 to 07
10. Curriculum vitae	: 266	- II ( 1 & 2)
11. Completing a form	: 282 – 286	- 1 to 7
12. Non detailed comprehension	: 126 – 128	- 1 to 7