

**PIET SANSKRITI SENIOR SECONDARY SCHOOL  
NFL TOWNSHIP PANIPAT**

**Class 12**

**THEME OF HOUSE BOARDS 2022-2023**

Months	BANDHU HOUSE	DAKSHA HOUSE	DHARMA HOUSE	SIDHA HOUSE
<b>APRIL QUILLING &amp; CRAFTING</b>	Sea World	Forests	Vehicles	Floral
<b>OCTOBER RESEARCH &amp; PRESENTATION</b>	Indian Defence	Indian Railways	Struggle of Independence	Constitution of India

**PEDAGOGICAL ASSESSMENT TOOLS**

UT 1	UT 2	UT 3	UT 4
UT, SPEAKING / RESEARCH/ DATA ACCUSTION /DIGIAL PORTFOILIO/ FLIPP LEARNING	UT. SPEAKING / FLIP LEARNING / LIVE SPECIMEN /GROUP DISCUSSION /LAB ACTIVITY /CREATIVE WRITING	UT, SURVEY/ CASE STUDY/ POWER POINT PRESENTATION ( SWAY)	UT, /ROLE PLAY/ DEBATE / CASE STUDY / FLIPP LEARNING

**DATE SHEET FOR PERIODIC TEST/ HYE/ FINAL**

<b>Periodic Test- 1 20 Marks Time : 40 min</b>		<b>Periodic Test- 3 20 Marks Time : 40 min</b>	
2nd May 2022	Bio/Eco	3rd Nov 2022	Bio/Eco
4th May 2022	AI/Comp/Food	5th Nov 2022	AI/Comp/Food
6th May 2022	English	7th Nov 2022	English
9th May 2022	Maths/App Maths/Entre	9th Nov 2022	Maths/App Maths/Entre
11th May 2022	Psycho	11th Nov 2022	Psycho
13th May 2022	Bst/Chemistry	15th Nov 2022	Bst/Chemistry
16th May 2022	Tax/Paint/Music	17th Nov 2022	Tax/Paint/Music
18th May 2022	Physics/Accounts	19th Nov 2022	Physics/Accounts
20th May 2022	Physical Edu	21st Nov 2022	Physical Edu
<b>Periodic Test- 2 20 Marks Time : 40 min</b>		<b>Periodic Test- 4 20 Marks Time : 40 min</b>	
27th Jul 2022	Bio/Eco	28th Dec 2022	Psycho
29th Jul 2022	AI/Comp/Food	30th Dec 2022	Tax/Paint/Music
1st Aug 2022	English	16th Jan 2023	English
3rd Aug 2022	Maths/App Maths/Entre	18th Jan 2023	Maths/App Maths/Entre
5th Aug 2022	Psycho	20th Jan 2023	Physical Edu
8th Aug 2022	Bst/Chemistry	23th Jan 2023	Bst/Chemistry
10th Aug 2022	Tax/Paint/Music	25th Jan 2023	AI/Comp/Food
13th Aug 2022	Physics/Accounts	27th Jan 2023	Physics/Accounts
16th Aug 2022	Physical Edu	30th Jan 2023	Bio/Eco
<b>HALF YEARLY 80 Marks</b>		<b>Pre-Board Examination 80 Marks</b>	
6th Sep 2022	Bio/Eco	10th Feb 2023	Bio/Eco
8th Sep 2022	AI/Comp/Food	13th Feb 2023	English
12th Sep 2022	English	16th Feb 2023	Maths/App Maths/Entre
15th Sep 2022	Maths/App Maths/Entre	18th Feb 2023	AI/Comp/Food
19th Sep 2022	Physics/Accounts	20th Feb 2023	Physical Edu
22nd Sep 2022	Bst/Chemistry	22nd Feb 2023	Bst/Chemistry
24th Sep 2022	Tax/Paint/Music	24th Feb 2023	Tax/Paint/Music
26th Sep 2022	Psycho	27th Feb 2023	Physics/Accounts
28th Sep 2022	Physical Edu	1st Mar 2023	Psycho

## **ACTIVITY**

### **April**

- 21<sup>st</sup> April '22 : Psychology Quiz (Humanities)
- 22<sup>nd</sup> April : Newspaper reading Competition (English Department)
- 25<sup>th</sup> April : Inter House Volleyball Competition (Physical Education)

### **May**

- 7<sup>th</sup> May'22 : Science Quiz (Science Department)
- 19<sup>th</sup> May'22: NGO Visit (Commerce and Humanities)
- 24<sup>th</sup> May'22: Badminton Competition (Physical Education)

### **July**

- 15<sup>th</sup> July'22:
  - Commerce Debate: Finance, Marketing, Budget (Commerce Department)
  - Science Debate: AI with genomics as future (Science Department)
- 22<sup>nd</sup> July'22 : Surveys on Capestone Project ( Computer/AI Department )
- 27<sup>th</sup> July'22: Basketball Competition (Physical Education)
- 10<sup>th</sup> -30<sup>th</sup> July'22: Know your Skills in psychology-( Humanities)

### **August**

- 9<sup>th</sup> Aug'22: Juggernaut – Economics based Scrabble (Commerce and Humanities)
- 25<sup>th</sup> Aug'22: Science Model Exhibition (Science Department)
- 26<sup>th</sup> August'22: Cricket/March past (Physical Education)

### **October**

- 5<sup>th</sup> October'22: Inter House Music, Dance and Art Competition (Music and Dance Department)
- 7<sup>th</sup> October'22 : Commerce Quiz: BIZMANIA (Commerce Department)
- 21<sup>st</sup> October'22: TEDx Talks(Commerce Department and Humanities)
- 25<sup>th</sup> October'22: Athletics (Physical Education)

### **November**

- 10<sup>th</sup> November'22 :Start-up Idea: BizMap Inter-House (Commerce Department)
- 18<sup>th</sup> Novemeber'22: Slow cycling/Mass PT/Rope skipping (Physical Education)
- 24<sup>th</sup> November'22: Guest talks/ Science Fest (Science Department)
- 25<sup>th</sup> November'22:
  - Bulls & Bears game (Commerce Department)
  - Designing Poster on Networking Concept (Computer/AI Department )
- 21<sup>st</sup>-25<sup>th</sup> November'22: Maths Quiz (Mathematics Department)

### **December**

- 23<sup>rd</sup> December'22: Corporate Fraud – An Analysis(Commerce Department)
- 27<sup>th</sup> December'22: Table tennis/Lawn Tennis (Physical Education)

### **January**

- 24<sup>th</sup> January'23: Kabaddi/ Cross country March past (Physical Education)
- 26<sup>th</sup> January'23: Republic Day Celebration (Music and Dance Department)

### **February**

- 20<sup>th</sup> February'23: Spin – a—yarn (Commerce Department)
- 22<sup>nd</sup> Feb'23: Sports meet (Physical Education)

## ENGLISH

### **Term I**

#### **MARCH**

Flamingo	L-1, The Last Lesson
Writing Skill	Notices, Classified Ads, Formal & Informal Invitation, Letter to Editor
Poem 1&2	My Mother at Sixty Six, An Elementary School Classroom in a Slum
Vistas	L-1 The Third Level
BBC	Module

#### **APRIL**

Flamingo	L- 2 Lost Spring
Writing Skill	Formal & Informal Invitation, Letter to Editor (Giving suggestions or opinions on issues of public interest)
Vistas	L- 2 The Tiger King
BBC	Module
Flamingo	L-3.Deep Water & L-4 The Rattrap
Poem 3	Keeping Quiet
Reading Skill	Note Making
Writing	Posters, Formal & Informal Replies, Report Writing
Vistas	L-4 The Enemy

#### **MAY**

Flamingo	L-5 Indigo
Writing Skill	Accidental Report, General Report.
BBC	Module

#### **JULY**

Writing Skill	Placing Order, Complaint Letter, Job Application, Article Writing
BBC	Module

#### **AUGUST**

Revision

### **Term II**

#### **SEPTEMBER**

Vistas	L-5 Should Wizard Hit Mommy,
Poem 4	The Thing of Beauty
BBC	Module

#### **OCTOBER'21**

Vistas	L- 6 On The Face Of It& L-8 Memories of Childhood
Writing	Business Letters (Asking and Giving Information)
BBC	Module

#### **NOVEMBER**

Flamingo	L-8 Going Places
Vistas	L-7 Evans Tries on Level 'O'
BBC	Module
Poem 6	Aunt Jennifer
Writing	Factual Description, Complaint Letter & Formal and Informal Replies

#### **DECEMBER**

Revision

### Pattern of Periodic Test

Section	A( Reading) 10	B( Writing) 10		C(Literature) 20			Total
Q.No	1	2	3	4	5	6	40
Typology	Note Making	1SAQ	1LAQ	4VSAQ	4 SAQ	1LAQ	
Marks	10	4	6	4	12	4	

### Syllabus of Periodic Test

Section	Flamingo	Vistas	Writing
Periodic Test 1	L-1,2 Poem 1	L-1,2,	Business Letters, Formal& Informal Invitation, Report Writing, Advertisements
Periodic Test 2	L-4,5 Poem 2,3	L- 5,6	Same as PT 1

### Pattern of Half Yearly & Pre Board Examination

Section	Competencies	Total marks %	Weightage
Comprehension	Conceptual understanding, decoding, Analyzing, inferring, interpreting, appreciating, literary, conventions and vocabulary, summarizing and using appropriate format/s	<b>20</b>	20 25%
Writing Skills	Reasoning, appropriacy of style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity	<b>30</b>	37.5%
Literature Textbooks and Supplementary	Reading Text Recalling, reasoning, appreciating literary convention, inference, analysis, creativity with fluency	<b>30</b>	37.5%
	<b>TOTAL</b>	<b>80</b>	<b>100%</b>
Assessment of Listening and Speaking Skills		<b>20</b>	
	<b>GRAND TOTAL</b>		<b>100</b>

### APPLIED MATHEMATICS

#### TERM I (March – August)

#### MARCH

**Chapter 1** Numbers, Quantification and Numerical Applications

#### APRIL

**Chapter 1** Numbers, Quantification and Numerical Applications(Contd.)

**Chapter 2** Numerical Inequalities

#### MAY

**Chapter 4** Matrices

**Chapter 5** Determinants

#### JULY

**Chapter 6** Applications of Derivatives

**Chapter 11** Index Numbers and Time Based Data

**AUGUST****Chapter 9**

Probability

**SEPTEMBER****Term I Examinations****TERM II ( October– January)****OCTOBER****Chapter 11**

Index Numbers and Time Based Data

**Chapter 7**

Integrals

**NOVEMBER****Chapter 8**

Differential Equations

**Chapter 10**

Inferential Statistics

**DECEMBER****Chapter 12**

Perpetuity, Sinking Funds, Bond and EMI

**Chapter 13**

Stocks, Shares and Debentures

**JANUARY****Chapter 14**

Return, Growth and Depreciation

**Chapter 15**

Linear Programming

**Pattern of Periodic Test**

<b>No. of Questions</b>	4	3	2	1	<b>Total</b>
<b>Marks</b>	1	2	3	4	20

**Syllabus of Periodic Test**

<b>Periodic Test</b>	I	II
<b>Chapters</b>	1,4,5	7,8,11

**Pattern of Half Yearly and Final Examinations**

<b>No. of Questions</b>	16	12	8	4	<b>Total</b>
<b>Total Marks</b>	1	2	3	4	80

**Marking Scheme of Half Yearly Examination**

<b>Chapter No.</b>	1	2	4	5	6	9	11	<b>Total</b>
<b>Marks</b>	10	8	8	12	12	20	10	80

**Marking Scheme of Final Examination**

<b>Chapter No.</b>	7	8	10	11	12	13	14	15	<b>Total</b>
<b>Marks</b>	10	8	10	10	10	10	10	12	80

**MATHEMATICS****TERM I (March-August)****MARCH****Chapter 3**

Matrices

**APRIL****Chapter 4**

Determinants

**Chapter 5**

Continuity and Differentiability

**MAY**

Chapter 5

Continuity and Differentiability

Chapter 6

Application of Derivatives

**JULY**

Chapter 6

Application of Derivatives

Chapter 2

Inverse Trigonometric Functions

**AUGUST**

Chapter 1

Relations and Functions

Chapter 12

Linear Programming

**SEPTEMBER****TERM-I EXAMINATION****TERM-II(October-February)****OCTOBER**

Chapter 7

Integrals

**NOVEMBER**

Chapter 8

Applications of the Integrals

Chapter 9

Differential Equations

**DECEMBER**

Chapter 10

Vectors

**JANUARY**

Chapter 11

Three Dimensional Geometry

**FEBRUARY**

Chapter 13

Probability

**Pattern of Periodic Test**

<b>No. of Questions</b>	4	3	2	1	<b>Total</b>
<b>Marks</b>	1	2	3	4	20

**Syllabus of Periodic Test**

<b>Periodic Test</b>	I	II	III	IV
<b>Chapters</b>	3,4	5,6	7,8	10,11

**Pattern of Half Yearly and Final Examination**

<b>Section</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Total</b>
<b>No. of Questions</b>	20	12	8	6	40
<b>Marks</b>	1	2	3	4	80

**Marking scheme of Half Yearly Examination**

<b>Chapter No.</b>	<b>1,2</b>	<b>3,4</b>	<b>5,6</b>	<b>12</b>	<b>Total</b>
<b>Marks</b>	16	20	34	10	80

**Marking scheme of Final Examination**

<b>Chapter No.</b>	<b>7,8,9</b>	<b>10,11</b>	<b>13</b>	<b>Total</b>
<b>Marks</b>	36	28	16	80

## PHYSICS

### Term I (March – September)

#### MARCH'22

NCERT Ch- 1 Electric Charges and Fields

#### APRIL'22

NCERT Ch-2 Electrostatic Potential and capacitance  
Activities related to Art Integration

#### MAY'22

NCERT Ch-3 Current Electricity

Revision : 1,2,3

#### JULY'22

NCERT Ch- 4 Moving Charges and Magnetism

NCERT Ch- 5 Magnetism and Matter

#### AUGUST'22

NCERT Ch-6 Electromagnetic Induction

NCERT Ch-7 Alternating Current

#### Revision

Project work will be assigned for the board practical's.

### Term II ( September- February)

#### SEPTEMBER'22

NCERT Ch-8 EM Waves

#### OCTOBER'22

NCERT Ch-9 Ray Optics and Optical instruments

NCERT Ch-10 Wave Optics

#### NOVEMBER'22

NCERT Ch-11 Dual nature of matter and radiation

NCERT Ch- 12 Atoms

#### DECEMBER' 22

NCERT Ch-13 Nuclei

NCERT Ch-14 Semiconductor and Electronics

#### JANUARY'23

Revision CBSE sample paper

#### Pattern of Periodic Test

No. of Ques.	2	2	3	1	Total
Marks	1	2	3	5	20

#### Syllabus of Periodic Test

Periodic Test	I	II
Chapter No	1,2,3	8,9,10

#### Marking Scheme of Term-1 Examination

Unit	Electrostatics	Current Electricity	Magnetism	Electromagnetic Induction Alternating Current	Total
Marks	17		18		35

## Marking Scheme for Term-2 Examination

Units	EM Waves	Optics	Dual nature of matter and radiation	Atoms and Nuclei	Electronic Devices	Total
Marks	28				7	35

### CHEMISTRY

#### Term I (March – September)

#### MARCH'22

NCERT Ch- 1 Solid state

#### APRIL'22

NCERT Ch-2 Solution

Activities related to Art Integration

#### MAY'22

NCERT Ch-7 p-block elements

**Revision : 1,2,7**

#### JULY'22

NCERT Ch-10 Haloalkane & haloarenes

#### AUGUST'22

NCERT Ch-11 Alcohols, phenols & ether  
Ch-14 Biomolecules

#### Revision

**Project work will be assigned for the board practical's.**

#### Term II ( September- February)

#### SEPTEMBER'22

NCERT Ch-3 Electrochemistry

#### OCTOBER'22

NCERT Ch-4 Chemical kinetics

NCERT Ch-5 Surface chemistry

#### NOVEMBER'22

NCERT Ch-8 d & f- block elements

NCERT Ch-9 Coordination compounds

#### DECEMBER' 22

NCERT Ch-12 Aldehydes, ketones & carboxylic acids

#### JANUARY'23

NCERT Ch-13 Amines

#### Revision CBSE sample paper

#### Pattern of Periodic Test

No. of Ques.	2	2	3	1	Total
Marks	1	2	3	5	20

#### Syllabus of Periodic Test

Periodic Test	I	II
Chapter No	1,2,7	8,9,12

### Marking Scheme of Term-1 Examination

Unit	Solid state	solutions	p- block	Haloalkanes & haloarenes	Alcohols,phenols & ethers	biomolecules	Total
Marks	10		10	15			35



## Marking Scheme for Term-2 Examination

Units	Electrochemistry Chemical kinetics Surface chemistry	d- & f- block elements Coordination compounds	Aldehydes, ketones & carboxylic acids Amines	Total
Marks	13	9	13	35

### BIOLOGY

#### Term I (March – September)

#### MARCH'22

NCERT Ch-2 Sexual Reproduction in Flowering plants

#### APRIL'22

NCERT Ch-3 Human Reproduction

Activities related to Art Integration

#### MAY'22

NCERT Ch-4 Reproductive Health

Revision : 2, 3,4

#### JULY'22

NCERT Ch-5 Principles of inheritance & variation

#### AUGUST'22

NCERT Ch-6 Molecular basis of inheritance

Revision 5,6

Project work will be assigned for the board practical's.

#### Term II (September- February)

#### SEPTEMBER'22

NCERT Ch-8 Human health & diseases

#### OCTOBER'22

NCERT Ch-10 Microbes in human welfare

NCERT Ch-11 Biotechnology: Principles & processes

#### NOVEMBER'22

NCERT Ch-12 Biotechnology & its applications

NCERT Ch-13 Organisms & populations

#### DECEMBER' 22

NCERT Ch-15 Biodiversity & its conservations

#### JANUARY'23

Revision CBSE sample paper

#### Pattern of Periodic Test

No. of Ques.	2	2	3	1	Total
Marks	1	2	3	5	20

#### Syllabus of Periodic Test

Periodic Test	I	II
Chapter No	2,3,4	8,10,11

#### Marking Scheme of Term-1 Examination

Unit	Reproduction	Genetics & Evolution	Total
Marks	15	20	35

#### Marking Scheme for Term-2 Examination

Units	Biology & human welfare	Biotechnology & its applications	Ecology & environment	Total
Marks	14	11	10	35

## ACCOUNTANCY

### **MARCH' 22**

**DK GOEL** Unit 2: Ch- Accounting for Partnership Firms - Fundamentals

### **APRIL'22**

**DK GOEL** Unit 2: Ch- Change in Profit Sharing Ratio among the Existing Partners

**DK GOEL**

Unit 2: Ch- Admission of a Partner

### **MAY'22**

**DK GOEL** Unit 2: Ch- Retirement or Death of a Partner

**DK GOEL** Unit 2: Ch- Dissolution of a Partnership Firm

### **JULY'22**

**DK GOEL** Unit 3: Ch- Company Accounts – Issue of Shares

### **AUGUST'22**

**DK GOEL** Unit 3: Ch- Company Accounts – Issue of Debentures

### **SEPTEMBER'22**

**DK GOEL** Unit 3: Ch- Company Accounts – Redemption of Debentures

### **OCTOBER'22**

**DK GOEL** Unit 1: Ch- Financial Statements of Not for Profit Organizations

**DK GOEL** Unit 4: Ch- Financial Statements of Companies

**DK GOEL** Unit 4: Ch- Financial Statements Analysis

**DK GOEL** Unit 4: Ch- Accounting Ratios

### **NOVEMBER'22**

Unit4: Ch-Comparative statements

Unit 4: Ch- Common Size Statements

**DK GOEL**

Unit 5: Ch- Cash Flow Statements

**DK GOEL**

### **Pattern of Periodic Test**

No. of Ques.	6	4	2	1	1	Total
Marks	1	3	4	6	8	40

### **Syllabus of Periodic Test**

Periodic Test	I	II
Chapter No	Ch-2, 3,4 (Book-1)	Ch-1 (Book-2) Ch- 1,2,3 (Book-3)

### **Pattern of Half Yearly, Final and Pre Boards Examination**

No. of Ques.	8	4	5	4	2	Total
Marks	1	3	4	6	8	80

### **Pattern of Practical Examination**

Project File	Written test	Viva-Voce	Total
4	12	4	20

### **Marking Scheme of Half Yearly Examination**

Unit	Unit -1	Unit -2	Unit -3	Total
Marks	25	30	25	80

### **Marking Scheme for Final, Pre Board 1 and 2 Examination**

Unit	Unit -1	Unit -2	Unit -3	Unit -4	Unit -5	Total
Marks	10	30	20	12	8	80

## BUSINESS STUDIES

### **Term I (May –August 2022)**

### **MAY'22**

NCERT Ch-1 Nature and significance of management

NCERT Ch-2 Principles of Management

NCERT Ch-3 Business Environment

NCERT Ch-4 Planning

## JUNE'22

NCERT Ch-4 Planning (Continued)  
NCERT Ch-5 Organizing  
Project work to be submitted after Summer Break

## JULY'22

NCERT Ch-6 Staffing  
NCERT Ch-7 Directing  
NCERT Ch-11 Marketing

## AUGUST'22

NCERT Ch-8 Controlling  
NCERT Revision Ch-2,5  
NCERT Revision Ch-6,7  
Term II (September- November 2022)

## SEPTEMBER'22

NCERT Ch-9 Financial Management

## OCTOBER'22

NCERT Ch-9 Financial Management (continued)  
NCERT Ch-10 Financial Market

## NOVEMBER'22

NCERT Ch-10 Financial Market (Continued)  
NCERT Ch-12 Consumer Protection  
NCERT Revision Ch-9,10  
Revision of Past Year CBSE Papers and Sample Papers

### Pattern of Periodic Test

No. of Questions	10	2	2	2	1	Total
Marks	1	3	4	5	6	40

### Pattern of Half Yearly, Final and Pre-Board Examination

No. of Questions	20	5	3	3	3	Theory	Practical	Total
Marks	1	3	4	5	6	80	20	100

### Pattern of Practical Examination

Initiative, cooperativeness and participation	Creativity in presentation	Content, observation and Research Work	Analysis of Situations	Viva	<b>Total</b>
2	2	4	4	8	20

### Marking Scheme of Half Yearly Examination

Chapter	1	2	3	4	5	6	7	8	Total
Marks	10	10	8	10	12	10	14	6	80

### Marking Scheme of Final and Pre-Board Examination

Chapter	1,2,3	4,5	6,7,8	9,10	11,12	Theory	Practical	Total
Marks	16	14	20	15	15	80	20	100

# ECONOMICS

## Term-I ( May- August'2022)

### MAY '22

- Macro Economics L-4 Measurement of National Income and the Basics  
Indian Economics L-1 A brief introduction of the state of Indian economy on the eve of independence.  
L-2 Common goals of Five Year Plans.  
Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy, etc.), industry (industrial licensing, etc.) and foreign trade

### JUNE'22

- Macro Economics L-7 AD, AS and Related Concepts  
L-8 Determination of Equilibrium Level of Income And Output  
L-9 Problem of Excess and Deficient Demand

**Project work to be submitted after Summer Break**

### JULY'22

- Indian Economics L-4 Poverty Develop  
L-3 Economic Reforms since 1991: Features and appraisals of liberalization, globalization and privatization (LPG policy); Concepts of demonetization, GST

### AUGUST'22

- Macro Economics L-5 Money and Supply of Money  
L-6 Banking, Central and Commercial Banks

## Term-II (1st September-24th November'2022)

### SEPTEMBER'22

- Indian Economics L-5 Rural Development  
L-6 Human Capital Formation in India L-7 Employment and Unemployment

### OCTOBER'22

- Macro Economics L-10 Govt. Budget and the Economy  
L-11 Foreign Exchange Rate L-12 Balance of Payments  
Revision L-8, 9, 10

### NOVEMBER'22

- Indian Economic Development L-8 Infrastructure  
L-9 Environment and Sustainable Development  
L-10 Development Experience of India- A Comparison with Pakistan And China. Revision of L-6, 8, 9

### Pattern of Periodic Test

No. of Question	10	2	3	2	Total
Marks	1	3	4	6	40

### Pattern of Half Yearly Final and Pre-Board Examination

No. of Ques.	20	04	06	04	24	Project	Total
Marks	01	03	04	06	80	20	100

### Pattern of Practical Examination

Project File	Relevance of the topic	Knowledge of the Content / Research work	Presentation technique	Viva	Total
	3	6	3	8	20

### Marking Scheme of Half Yearly Examination (Macro Economics and Indian Economy)

Lessons MACRO:1,2,3,4,7,8,9 INDIAN ECO:1,2,3,4	Total	Project
Marks	80	20

### Marking Scheme of Final and Pre-Board Examination

	Macro Economics					Indian Economy						
Unit	I	II	III	IV	V	VI	VII	VIII	Theory	Project	Total	
Marks	10	06	12	06	06	12	22	06	80	20	100	

## PSYCHOLOGY

### Term I ( March- August '2022 )

#### MARCH '22

**Ch -1** What is Psychology?

#### APRIL '22

**Ch-2** Methods of Enquiry in Psychology

#### MAY '22

**Ch – 3** The Bases of Human Behavior

**Practical**

**Project work to be submitted after Summer Break**

#### JULY '22

**Ch – 4** Human Development

**Practical**

#### AUGUST '22

**Ch – 5** Sensory, Attentional and Perceptual Processes

### Term II ( September- November'2022 )

#### SEPTEMBER '22

**Ch – 6** Learning

**Ch 7 -** Human Memory

#### OCTOBER '22

**Ch – 8** Thinking

#### NOVEMBER '22

**Revision : Ch-7 & 8**

**Ch-9** Motivation and Emotion

### Pattern of Periodic Test

No. of Question	10	2	3	2	Total
Marks	1	3	4	6	40

### Syllabus of Periodic Test

Periodic Test	I	2
Lesson	CH-1,2,3	CH-4,5,6,7,8

### Pattern of Half Yearly Final and Pre-Board Examination

No. of Ques.	10	04	06	04	24	Practical	Total
Marks	01	03	04	06	70	30	100

### Pattern of Practical Examination

Experiment	File	Project	Viva	Total
15	05	05	05	30

### Marking Scheme of Half Yearly Examination

Lessons 4-8	Total	Practical
Marks	70	30

### Marking Scheme of Final and Pre-Board Examination

Unit	I	II	III	IV	V	VI	VII	VIII	IX	Theory	Practical	Total
Marks	7	10	8	6	8	9	8	7	7	70	30	100

## ENTREPRENEURSIP

### MARCH' 22

NCERT

Unit 1: Entrepreneurial Opportunities

### APRIL'22

NCERT

Unit 2: Entrepreneurial Planning

### MAY'22

NCERT

Unit 3: Enterprise Marketing

### JULY'22

NCERT

Unit 4: Enterprise Growth Strategies

### AUGUST'22

NCERT

Unit 4: Enterprise Growth Strategies (Continued)

### Term II

### SEPTEMBER'22

NCERT

Revision of Unit 1,2,3,4

### OCTOBER'22

NCERT

Unit 5: Business Arithmetic

### NOVEMBER'22

NCERT

Unit 6: Resource Mobilization

### Pattern of Periodic Test

No. of Ques.	10	2	4	2	1	Total
Marks	1	2	3	4	6	40

### Syllabus of Periodic Test

Periodic Test	I	II
Chapter No	Unit-1,2	Unit- 4,5

### Pattern of Half Yearly, Final and Pre Boards Examination

No. of Ques.	17	7	5	3	2	Total
Marks	1	2	3	4	6	70

### Pattern of Practical Examination

Case Study	Project Report	Written test	Viva-Voce	Total
10	10	5	5	30

### Marking Scheme of Half Yearly Examination

Unit	1	2	3,4	Project	Total
Marks	20	25	25	30	100

### Marking Scheme for Final, Pre Board 1 and 2 Examination

Unit	1,2	3,4	5,6	Project	Total
Marks	30	20	20	30	100

## FOOD & NUTRITION

**Total Marks: 100 (Theory - 70 + Practical - 30)**

<b>Class XII</b>			
	<b>UNITS</b>	<b>NO. OF HOURS for Theory and Practical</b>	<b>MAX. MARKS for Theory and Practical</b>
<b>Pa</b>	<b>Employability Skills</b>		
	Unit 1 : Communication Skills-IV	13	10
	Unit 2 : Self-Management Skills- IV	07	
	Unit 3 : ICT Skills- IV	13	
	Unit 4 : Entrepreneurial Skills- IV	10	
	Unit 5 : Green Skills- IV	07	
	<b>Total</b>	<b>50</b>	
<b>Par</b>	<b>Subject Specific Skills</b>		
	Unit 1: Clinical and Therapeutic Nutrition	25	15
	Unit 2: Diet in Health and Disease: cause, physiological conditions, clinical symptoms and dietary management	25	15
	Unit 3: Diet in Health and Disease - II	25	15
	Unit 4: Food Safety and Quality Control	20	15
	<b>Total</b>	<b>95</b>	<b>60</b>
<b>Part C</b>	<b>Practical Work</b>		
	Viva based on Project	55	5
	Practical File / Power Point presentation		10
	Demonstration of skill competency via Lab Activities		15
	<b>Total</b>		<b>55</b>
<b>GRAND TOTAL</b>		<b>200</b>	<b>100</b>

**NOTE:** For Detailed Curriculum/ Topics to be covered under Part A: Employability Skills can be downloaded from CBSE website.

### DETAILED CURRICULUM FOR CLASS XII

#### PART A - EMPLOYABILITY SKILLS:

<b>S. No.</b>	<b>Units</b>	<b>Duration (in Hours)</b>
1.	Unit 1: Communication Skills- IV	13
2.	Unit 2: Self-management Skills- IV	07
3.	Unit 3: Information and Communication Technology Skills-IV	13
4.	Unit 4: Entrepreneurial Skills- IV	10
5.	Unit 5: Green Skills- IV	07
<b>TOTAL DURATION</b>		<b>50</b>

#### PART B - SUBJECT SPECIFIC SKILLS:

##### Unit 1: Clinical and Therapeutic Nutrition:

- Therapeutic Nutrition:

- Introduction to clinical nutrition and therapeutic nutrition,
- Scope of Dietetics/Role of Dietitian in health care (*clinical services, community nutrition/public health, wellness and disease prevention, food service, nutrition health education/communication, nutritionresearch*)
- Normal Nutrition and Adaptation to Therapeutic Diets
- Understand relationship between nutrition and infection (Synergism)
- Types of therapeutic modification of normal diet with respect to- consistency, frequency, foodstuffs, nutrients and methods of cooking (Moist-boiling, pressure cooking, steaming, blanching, poaching and Dry-roasting, toasting, baking methods.).

**Unit 2: Diet in Health and Disease: causes, physiological conditions, clinical symptoms and dietary management of:**

- Fever (typhoid, tuberculosis)
- Diarrhea
- Eating disorders (anorexia nervosa, bulimia, binge eating)
- Overweight/obesity

**Unit 3: Diet in Health and Disease - II**

- Causes, physiological conditions, clinical symptoms, dietary management of
- Hypertension
- Diabetes
- Jaundice/ Hepatitis
- Celiac disease, Lactose Intolerance, peptic ulcer

**Unit 4: Food Safety and Quality Control:**

- Food Hazards( physical, chemical, biological) Food borne Diseases: Cholera, Typhoid, Salmonellosis) Concept, Causes and preventive measures
- Personal Hygiene
- Food Hygiene and Sanitation and Environmental Sanitation and Safety (Water supply, Waste Disposal) at home level.
- Food Adulteration: Concept/Definition as given by FSSAI, Common adulterants present in foods (cereals, pulses, milk and milk products, fats and oils, sugar, honey, spices and condiments), Ill effect of adulterants (metanil yellow, argemone, kesari dal) on human health common methods for detecting adulteration at home)
- FSSAI Act 2006
- Reading and Understanding Food labels with reference to food products
- HFSS Foods and their implications for child health

**PRACTICAL GUIDELINES FOR CLASS XII**

**Assessment of performance:**

In class XII – Two examiners (one internal and one external) only assigned for the conduct and assessment of Practical Examinations each in Senior Secondary School Curriculum Question for the viva examinations should be conducted by both the examiners. Question to be more of General nature, project work or the curriculum. Investigatory Project especially those that show considerable amount of effort and originality, on the part of the student, should get suitable high marks, while project of a routine or stereotyped nature should only receive MEDIOCRE marks.

**Procedure for Assessment of practical project work: (Total 30 marks):**

- Creative skills among students. Students can prepare a Project Report on Operating



Costing or Service Costing of any organization viz., transport, hotel, canteen or any other service organization on the basis of their understandability and class room knowledge.

- They may get the guidance from their respective teacher in order to boost their skill and knowledge. The Project should be the sole work of student.
- The mark for the project report will be assessed by the subject teachers, through, a well-planned rubric, keeping in view the core content, quality of the project and Organization of data.
- As students do not have an external examination teacher could follow similar pattern as enunciated for class XII
- To improve students' presentation skills, it is suggested that the students should be trained to present the final project. The concerned teacher and the students should visit to some Industry or service sector in order to understand knowhow of the business sector. Visiting to Industry or service sectors will enhance their knowledge and improve their skills & understanding.

**Viva based on Project - 05 marks:**

The teacher conducting the final practical examination should ask verbal questions related to the project. If no project has been assigned /made by the students, viva must be based on subject as per the Curriculum only.

**Project Report – 25 marks**

1. Identify food adulteration using visual and chemical methods:
  - a. Turmeric
  - b. Chana dal
  - c. Bura/sugar
  - d. Milk
  - e. Tea leaves
  - f. Coriander
  - g. Black pepper seed
  - h. Desi ghee
2. Prepare one preserved product; also prepare a suitable label for it.
3. Find out the causes for spoilage of food and enlist general ideas of storing common food at home.
4. Critically evaluate factor-influencing selection of food, culture, family food practices, media, and peer group, availability of foods, purchasing power, individual references & health.
5. Therapeutic modification of normal diet with respect to consistency, frequency, food stuffs, nutrients and methods of cooking.
6. To identify the economic consequences of malnutrition & to learn about the strategies for improving the nutritional status of communities.

<b>PARAMETERS</b>	<b>MARKS</b>
Prepare Project Report based on content, investigation, originality and compilation	25
Viva (Based on Curriculum)	05
<b>TOTAL</b>	<b>30</b>

# PHYSICAL EDUCATION

## **Term I (May – August)**

**MARCH**

Ch. 1 Planning In Sports

**APRIL**

Ch. 2 Sports and Nutrition

**MAY**

Ch. 6 Test and Measurement In Sports

**JULY**

Ch. 5 Children and women in Sports

**AUGUST**

Ch. 8 Biomechanics and Sports  
Practical; Topic - Major Game

**SEPTEMBER**

## **Term II (October – February)**

**OCTOBER**

Ch. 3 Yoga and Lifestyle

Ch. 7 Physiology and Sport injuries

**NOVEMBER**

Ch. 4 Physical Education and Sports For Differently – Abled

**DECEMBER**

Ch. 9 Psychology and Sports

**Practical:** Topic – Athletics

**JANUARY**

Ch. 10 Training In Sport

### **Pattern of Unit Test**

No of Questions	3	4	1
Marks	1	3	5

### **Pattern of Half Yearly/Pre Board/Final**

No of Questions	13	9	4
Marks	1	3	5

## PAINTING

**APRIL'21**

### **UNIT-1**

#### **1) The Rajasthani & Pahari School of Miniature Painting**

- Miniature Painting
- Rajput Miniature/ Rajasthani School of Painting
- The Pahari School

#### **2) Elements of Composition:**

- Point
- Line
- Form
- Color

- Tone
- Texture
- Space

### **3) Principles of Composition:**

- Unity
- Harmony
- Balance
- Rhythm
- Emphasis and Proportion
- Abstraction and Stylisation.

**MAY'21**

## **UNIT-2**

### **1) The Mughal & Deccan School of Miniature Painting**

- The Mughal School of Art
- The Deccan School of Art

**JULY'21**

### **1) Drawing and Painting: Practical**

- Fore shortening
- Perspective
- Eye-level
- Fixed point of Vanishing Point
- Ratio-Proportion
- Sketching
- Drawing
- Light and Shade
- Painting from Still-Life
- Landscape
- Anatomy
- Vertical
- Horizontal
- Transparent and Opaque

**AUGUST'21**

## **UNIT-3**

### **A. The Bengal School of Painting and the Modern Trends in Indian Art**

- The Bengal School of Painting

### **1) Media of Composition:**

- Collage
- Mosaic
- Painting
- Mural
- Fresco
- Batik Tie and Dye

## 2) Graphics:

- Linocut
- Relief printing
- Etching
- Lithography
- Silk screen
- Printing
- Letter press and offset printing

**SEPTEMBER'21**

## UNIT-3

### **B. The Modern Trends in Indian Art:**

- Contemporary Indian and Modern Art
- Study of the Painting of Contemporary (Modern Art)
- Study of the Graphics of Contemporary (Modern Art)
- Study of the Sculpture of Contemporary (Modern Art)

## 2) Sculpture:

- Relief and Round Sculpture
- Modelling with Clay
- Terra-Cotta
- Carving in wood
- Stone and Bronze Casting
- Plaster of Paris
- Metal welding

**OCTOBER'21**

## UNIT-4

### **Points to Remember**

- Examination paper-2019
- Examination paper-2020

## 1) Applied Art:

- Book cover Design and Illustration
- Cartoon
- Poster
- Advertisement for Newspaper and Magazine
- Animation and Printing Process
- Photography
- Computer
- Graphic
- Hoarding and T.V.

**NOVEMBER'21**

## 1) REVISION

## MUSIC VOCAL

<b>MARCH , APRIL</b>	: ABDUL KAREEM KHAN , RAAG BHAIRAV , VAND , KHATKA , MURKI , KAN , BADE GULAM ALI KHAN
<b>MAY</b>	: JHAPTAAL , MURCHHANA , RAAG MALKAUNS , SANGEET PARIJAT , TAANPURA
<b>JULY</b>	: KRISHNA RAO SHANKAR PANDIT , RAAG VARGIKARAN , ALANKAR, TAAN , GRAM
<b>AUG</b>	: RAAG SHUDDH SARANG RIVISION
<b>SEP</b>	: FAIYAZ KHAN , RAAG BAGESHRI , TIWARA
<b>OCT</b>	: GAMAK , TIME THEORY OF RAGAS , SANGEET RATNAKAR DHMAAR TAAL , RUPAK TAAL
<b>NOV</b>	: MEEND , ALAP
<b>DEC</b>	: RIVISION
<b>JAN</b>	: CBSE Sample Paper
<b>FEB</b>	: CBSE Sample Paper

### Pattern of Periodic Test

No of Questions	4	3	2	1	Total
Marks	2	2	3	4	20

### Syllabus of Periodic Test

Periodic Test	I	II
Topic	NAAD , SHRUTI ,SWAR SANGEET , DHWANI	PT. BHATKHANDE TEEN T TARANA , EKTAAL

### Pattern of Half Yearly and Final Examinations

No of Questions	5	4	3	2	1	Total
Marks	6	6	5	5	2	30

### Marking scheme of Half Yearly Examination

Topic	ABDUL KAREEM KHAN	RAAG BHAIRAV	VAND	KHATKA	MURKI	KAN	BADE GULAM ALI KHAN	Total
Marks	4	3	3	5	5	5	5	30

### Marking scheme of Final Examination

Topic	FAIYAZ KHAN	RAAG BAGESHRI	GAMAK	TIME THEORY OF RAGAS	SANGEE T RATNAKAR	MURCHHANA	RAAG MALKAUNS	TOTAL
Marks	5	4	5	4	4	4	4	30

# COMPUTER SCIENCE

## Term I (March- September)

### MARCH

#### Chapter -1 and 2 Python Revision Tour

Introduction, tokens, data types, Flow control, looping statements, jump statements, strings, Lists, Tuples, Dictionaries in Python, sorting Techniques.

#### Chapter - 10 Communication and Network Concepts

Introduction, Types of Networks, Evolution.

Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps).

Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link.

Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, WiFi card.

#### Chapter -3 Working with Functions

Introduction, working, defining, flow of execution, passing parameters, returning values, Composition, scope of variable

### APRIL

#### Chapter -4 Using Python libraries

Create and import Python libraries

#### Chapter – 10 Communication and Network Concepts (Contd..)

Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN.

Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communication protocol such as GSM, GPRS and WLL.

Internet Protocols- TCP/IP, HTTP, HTTPS, SMTP, POP3, IMAP

Remote Login and File Transfer Protocols – FTP, SSH, SFTP, SCP, TELNET

Wireless/Mobile Technology

### MAY

#### Chapter-6 Recursion

Simple algorithms with recursion: print a message forever, sum of first n natural numbers, factorial, Fibonacci numbers; recursion on arrays: binary search.

#### Chapter-11 Relational Database

Introduction to database concepts and its need.

Concept of domain, relation, tuple, attribute, degree, cardinality, key, primary key, candidate key, alternate key and foreign key;

#### Chapter -10 Communication and Network Concepts (Contd...)

Mobile Telecommunication Technologies: 1G, 2G, 3G, 4G and 5G; Mobile processors, Electronic mail protocols such as SMTP, POP3, Protocols for Chat and Video Conferencing: VoIP, Wireless technologies such as Wi-Fi and WiMax Network Security Concepts: Threats and prevention from Viruses, Worms, Trojan horse, Spams Use of Cookies, Protection using Firewall, https; India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking. Introduction to Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol

(HTTP); Domain Names; URL; Website, Web browser, Web Servers; Web Hosting, Web Scripting – Client side (VB Script, Java Script, PHP) and Server side (ASP, JSP, PHP), Web 2.0 (for social networking) E-commerce payment transactions using online banking, mobile banking, payment apps and services.

### JULY

**Chapter -12**

**Simple Queries in SQL**

**Chapter- 13**

**Table Creation and Data Manipulation Commands**

CREATE TABLE, DROP TABLE, ALTER TABLE, UPDATE, SET, INSERT, DELETE; SELECT

**Chapter -5**

**File Handling**

Need for a data file, Types of file: Text files, Binary files and CSV (Comma separated values) files.

Text File: Basic operations on a text file: Open (filename – absolute or relative path, mode) / Close a text file, Reading and Manipulation of data from a text file, Appending data into a text file, standard input / output and error streams, relative and absolute paths.

Binary File: Basic operations on a binary file: Open (filename – absolute or relative path, mode) / Close a binary file, Pickle Module – methods load and dump; Read, Write/Create, Search, Append and Update operations in a binary file.

CSV File: Import csv module, functions – Open / Close a csv file, Read from a csv file and Write into a csv file using csv.reader ( ) and csv.writerow( ).

### AUGUST( Revision)

### SEPTEMBER(Examinations)

**Term II (October - December)**

### OCTOBER

**Chapter-8 and 9 Data-structures**

Lists, Stacks – Push, Pop using a list, Queues – Insert, Delete using a list.

**Chapter-7**

**Idea of efficiency**

Performance measurement in terms of the number of operations.

**Chapter – 14**

**Grouping Records, Joins in SQL**

### NOVEMBER

**Chapter - 15**

**Interface of Python with an SQL database**

Connecting SQL with Python - Creating Database connectivity

Applications, Performing Insert, Update, Delete queries - Display data by using Fetchone ( ), fetchall ( ), rowcount

**Revision**

### Syllabus of Periodic Tests and Pre-Board

Exam	Periodic Test 1	Periodic Test 2	Periodic Test 3	Periodic Test 4
Chapters	1,2,10,3,4,	10,6,11,12,13,5	8,9,7	14,15

### Pattern of Periodic Tests

No. of Questions	4	5	2	2	Total
Marks	1	2	3	5	30

## Syllabus of Half Yearly/ Pre Boards and Final Examination

Exam	Half Yearly/Pre Boards		Final Examination/ Pre Boards	
	Theory	Practical	Theory	Practical
Chapters	1,2,10,3,4,6,11,12,13,5	3,6,12, and 13	7,8,9,14,15	Python and SQL

### Pattern of Half Yearly, Final Examination and Pre-Board I/II

No. of Questions	23	10	4	3	Total	Practical	Total
Marks	1	2	3	5	70	30	100

## ARTIFICIAL INTELLIGENCE

### TERM I ( April– September)

#### Chapter 1(Part B)

#### APRIL

Capstone Project

#### Chapter 1(Part A)

#### MAY

Communication Skills

#### Chapter 1(Part B)

Capstone Project

#### Chapter 2(Part A)

#### JULY

Self-Management Skills

#### Chapter 2(Part B)

Model Lifecycle

#### Chapter 3(Part A)

#### AUGUST

ICT Skills

### TERM II ( October– January)

#### Chapter 4(Part A)

#### OCTOBER

Entrepreneurial Skills

#### Chapter 3(Part B)

Storytelling through Data

#### Chapter 5(Part A)

#### NOVEMBER

Green Skills

#### Chapter 3(Part B)

Storytelling through Data

#### DECEMBER

Revision

#### JANUARY

### Pattern of Periodic Tests (I, II, III, IV)

No. of Questions	4	5	2	2	Total
Marks	1	2	3	5	30

### Syllabus of Periodic Tests

Periodic Test	I	II	III	IV
Chapters	1(A),1(B)	2(A),2(B),3(A)	4(A),3(B)	3(B),5(A)

### Pattern of Half Yearly and Final Examinations

No. of Questions	10	7	4	2	Theory	Practical	Total
Marks	1	2	4	5	50	50	100

### Syllabus of Half Yearly and Final Examinations

Half Yearly/ Final	Half Yearly	Final
Chapters	1(A),1(B),2(A),2(B), 3(A),	4(A),5(A), 3(B)