



DAV Nerul

**SYLLABUS- 2022-2023**

**CLASS - XII**



## INDEX

1. English
2. Mathematics
3. Physics
4. Chemistry
5. Biology
6. Computer Science
7. Accountancy
8. Entrepreneurship
9. Economics
10. Business Studies
11. Applied Mathematics
12. Activity List (2022-23)

**SUBJECT- ENGLISH CORE**

**WRITTEN :80 MARKS**

**INTERNAL : 20 MARKS**

**UNIT TEST 1**

**SECTION A**

**READING COMPREHENSION**

- UNSEEN FACTUAL, DESCRIPTIVE OR LITERARY PASSAGE
- UNSEEN CASE BASED PASSAGE

**SECTION B**

**WRITING SKILL**

- NOTICE WRITING
- WRITING FORMAL AND INFORMAL INVITATIONS AND REPLIES.
- REPORT WRITING

**SECTION C**

**LITERATURE**

- FLAMINGO – PROSE - THE LAST LESSON, LOST SPRING
- POEM – MY MOTHER AT 66, KEEPING QUIET
- VISTAS –THE THIRD LEVEL

**HALF-YEARLY EXAMINATION**

**SECTION A**

**READING COMPREHENSION**

- UNSEEN FACTUAL, DESCRIPTIVE OR LITERARY PASSAGE
- UNSEEN CASE BASED PASSAGE

**SECTION B**

**WRITING SKILL**

- NOTICE WRITING
- WRITING FORMAL AND INFORMAL INVITATIONS AND REPLIES.
- ARTICLE/REPORT WRITING
- JOB APPLICATION AND BIO-DATA WRITING

## **SECTION C**

### **LITERATURE**

- FLAMINGO – PROSE – THE LAST LESSON, LOST SPRING, DEEP WATER, THE RATTRAP, INDIGO, POETS AND PANCAKES
- POEM – MY MOTHER AT 66, KEEPING QUIET, A THING OF BEAUTY,
- VISTAS –THE THIRD LEVEL, THE TIGER KING, THE ENEMY, ON THE FACE OF IT,

## **FIRST PRELIMINARY EXAMINATION & SECOND PRELIMINARY EXAMINATION**

### **SECTION A**

#### **READING COMPREHENSION**

- UNSEEN FACTUAL, DESCRIPTIVE OR LITERARY PASSAGE
- UNSEEN CASE BASED PASSAGE

### **SECTION B**

#### **WRITING SKILL**

- NOTICE WRITING
- WRITING FORMAL AND INFORMAL INVITATIONS AND REPLIES.
- ARTICLE/REPORT WRITING
- JOB APPLICATION AND BIO-DATA WRITING/ LETTERS TO THE EDITOR

## **SECTION C**

### **LITERATURE**

- FLAMINGO – PROSE – THE LAST LESSON, LOST SPRING, DEEP WATER, THE RATTRAP, INDIGO, THE INTERVIEW, GOING PLACES, POETS AND PANCAKES POEM – MY MOTHER AT 66, KEEPING QUIET, A THING OF BEAUTY, A ROADSIDE STAND, AUNT JENNIFER'S TIGERS
- VISTAS –THE THIRD LEVEL, THE TIGER KING, THE ENEMY, JOURNEY TO THE END OF THE EARTH, ON THE FACE OF IT, MEMORIES OF MY CHILDHOOD,

**SUBJECT: MATHEMATICS**

**THEORY: 80**

**PRACTICALS: 20**

**FIRST UNIT TEST.**

- RELATIONS AND FUNCTIONS.
- INVERSE TRIGONOMETRIC FUNCTION.
- MATRICES.
- DETERMINANTS.
- CONTINUITY AND DIFFERENTIABILITY.

**HALF YEARLY EXAMINATION**

- RELATIONS AND FUNCTIONS.
- INVERSE TRIGONOMETRIC FUNCTION.
- MATRICES.
- DETERMINANTS.
- CONTINUITY AND DIFFERENTIABILITY.
- APPLICATION OF DERIVATIVES.
- INTEGRALS.

**FIRST PRELIMINARY EXAMINATION & SECOND PRELIMINARY EXAMINATION**

**FULL SYLLABUS.**

**SUBJECT : PHYSICS**

**THEORY: 70**

**PRACTICALS: 30**

**FIRST UNIT TEST:**

- CHAPTER–1: ELECTRIC CHARGES AND FIELDS
- CHAPTER–2: ELECTROSTATIC POTENTIAL AND CAPACITANCE
- CHAPTER–3: CURRENT ELECTRICITY
- CHAPTER–4: MOVING CHARGES AND MAGNETISM
- CHAPTER–5: MAGNETISM AND MATTER

**HALF YEARLY EXAM.**

- CHAPTER–1: ELECTRIC CHARGES AND FIELDS
- CHAPTER–2: ELECTROSTATIC POTENTIAL AND CAPACITANCE
- CHAPTER–3: CURRENT ELECTRICITY
- CHAPTER–4: MOVING CHARGES AND MAGNETISM
- CHAPTER–5: MAGNETISM AND MATTER
- CHAPTER–6: ELECTROMAGNETIC INDUCTION
- CHAPTER– 7: A.C
- CHAPTER –8 : ELECTROMAGNETIC WAVES
- CHAPTER 9: RAY OPTICS

**FIRST AND SECOND PRELIMINARY EXAMINATION.**

**FULL SYLLABUS**

**SUBJECT : CHEMISTRY**

**THEORY: 70**

**PRACTICALS: 30**

**FIRST UNIT TEST**

- SOLUTIONS
- BIOMOLECULES
- HALOALKANES AND HALOARENES
- ALCOHOLS, PHENOLS AND ETHERS

**HALF YEARLY EXAMINATION**

- SOLUTIONS
- BIOMOLECULES
- HALOALKANES AND HALOARENES
- ALCOHOLS, PHENOLS AND ETHERS
- ELECTROCHEMISTRY
- CHEMICAL KINETICS
- ALDEHYDES, KETONES AND CARBOXYLIC ACIDS
- AMINES
- D AND F BLOCK ELEMENTS
- COORDINATION COMPOUNDS

\*TERM 2 INCLUDES TERM 1 PORTION ALSO

**FIRST AND SECOND PRELIMINARY EXAMINATION**

**FULL SYLLABUS**

**SUBJECT- BIOLOGY**

**THEORY : 70 MARKS**

**PRACTICAL : 30 MARKS**

**FIRST UNIT TEST**

- SEXUALREPRODUCTION IN ANGIOSPERM
- HUMAN REPRODUCTION
- REPRODUCTIVE HEALTH
- PRINCIPLES OF INHERITANCE & VARIATION

**HALF- YEARLY EXAMINATION**

- SEXUAL REPRODUCTION IN ANGIOSPERM
- HUMAN REPRODUCTION
- REPRODUCTIVE HEALTH
- PRINCIPLES OF INHERITANCE & VARIATION
- MOLECULAR BASIS OF INHERITANCE
- EVOLUTION
- HUMAN HEALTH & DISEASE
- MICROBES IN HUMAN WELFARE

**FIRST AND SECOND PRE-BOARD EXAMINATION**

- SEXUAL REPRODUCTION IN ANGIOSPERM
- HUMAN REPRODUCTION
- REPRODUCTIVE HEALTH
- PRINCIPLES OF INHERITANCE & VARIATION
- MOLECULAR BASIS OF INHERITANCE
- EVOLUTION
- HUMAN HEALTH & DISEASE
- MICROBES IN HUMAN WELFARE
- BIOTECHNOLOGY – PRINCIPLES AND PROCESSES
- BIOTECHNOLOGY AND ITS APPLICATIONS
- ORGANISMS AND POPULATIONS



- ECOSYSTEM
- BIODIVERSITY AND CONSERVATION

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## **SUBJECT-COMPUTER SCIENCE**

**THEORY : 70 MARKS**

**PRACTICAL : 30 MARKS**

### **FIRST UNIT TEST**

- REVISION OF PYTHON TOPICS COVERED IN CLASS XI
- FUNCTIONS: TYPES OF FUNCTION
- MODULES AND PYTHON LIBRARIES
- INTRODUCTION TO FILES, TYPES OF FILES (TEXT FILE, BINARY FILE, CSV FILE),  
RELATIVE AND ABSOLUTE PATHS
- TEXT FILES
- BINARY FILES
- CSV FILES
- DATA STRUCTURE

### **HALF - YEARLY EXAMINATION**

- PORTIONS COVERED IN THE FIRST UNIT TEST
- DATABASE CONCEPTS
- DATABASE MANAGEMENT
- STRUCTURED QUERY LANGUAGE
- JOINS
- INTERFACE OF PYTHON WITH AN SQL DATABASE

### **FIRST PRELIMINARY EXAMINATION**

- COMPUTER NETWORKS
- ( FULL SYLLABUS )
- FINAL JOURNAL AND PROJECT WORK SUBMISSION

### **SECOND PRELIMINARY EXAMINATION**

- FULL SYLLABUS

**SUBJECT : ACCOUNTANCY**

**THEORY -80 MARKS**

**PRACTICALS- 20 MARKS**

**1ST UNIT TEST**

**ACCOUNTING FOR PARTNERSHIP FIRMS**

- CHAPTER 2 - ACCOUNTING FOR PARTNERSHIP FIRMS - FUNDAMNETALS
- CHAPTER 3 - GOODWILL : NATURE AND VALUATION
- CHAPTER 4 - CHANGE IN PROFIT SHARING RATIO AMONG EXISTING PARTNERS
- CHAPTER 5 - ADMISSION OF A PARTNER

**ANALYSIS OF FINANCIAL STATEMENTS**

- CHAPTER 1 - FINANCIAL STATEMENTS OF A COMPANY
- CHAPTER 4 - ACCOUNTING RATIOS

**HALF YEARLY EXAMINATION**

**ACCOUNTING FOR PARTNERSHIP FIRMS**

CHAPTER 6 -RETIREMENT OF A PARTNER

CHAPTER 7 - DEATH OF A PARTNER

**ACCOUNTING FOR COMPANIES**

CHAPTER 9 - ACCOUNTING FOR SHARE CAPITAL

- INCLUDES THE PORTION COVERED IN FIRST UNIT TEST

**FIRST PRELIMINARY EXAMINATION**

**ACCOUNTING FOR PARTNERSHIP FIRMS**

- CHAPTER 8 - DISSOLUTION OF A PARTNERSHIP FIRM

**ANALYSIS OF FINANCIAL STATEMENTS**

- CHAPTER 5 - CASH FLOW STATEMENT

**ACCOUNTING FOR COMPANIES**

- CHAPTER 10 - ISSUE OF DEBENTURES

\* INCLUDES THE PORTION COVERED IN 1ST UNIT & 1ST TERM EXAMINATION

**SECOND PRELIMINARY EXAMINATION**

**FULL SYLLABUS**

**SUBJECT- ENTREPRENEURSHIP**

**THEORY : 70 MARKS**

**PRACTICAL : 30 MARKS**

**1ST UNIT TEST**

- ENTREPRENEURIAL OPPORTUNITY
- ENTERPRISE PLANNING
- RESOURCE MOBILIZATION)

**HALF YEARLY EXAMINATION**

- ENTREPRENEURIAL OPPORTUNITY
- ENTERPRISE PLANNING
- ENTERPRISE MARKETING
- ENTERPRISE GROWTH STRATEGIES
- BUSINESS ARITHMETIC
- RESOURCE MOBILISATION

**1ST AND 2ND PRE BOARD**

- ENTREPRENEURIAL OPPORTUNITY
- ENTERPRISE PLANNING
- ENTERPRISE MARKETING
- ENTERPRISE GROWTH STRATEGIES
- BUSINESS ARITHMETIC
- RESOURCE MOBILISATION

**SUBJECT: ECONOMICS**

**THEORY: 80**

**PRACTICALS: 20**

**1ST UNIT TEST**

**INDIAN ECONOMIC DEVELOPMENT**

**DEVELOPMENT EXPERIENCE(1947-90) AND ECONOMIC REFORMS SINCE 1991**

- INDIAN ECONOMY ON THE EVE OF INDEPENDENCE
- INDIAN ECONOMY 1950-1990
- LIBERALISATION, PRIVATISATION AND GLOBALISATION: AN APPRAISAL

**INTRODUCTORY MACROECONOMICS**

- GOVERNMENT BUDGET AND THE ECONOMY
- NATIONAL INCOME AND RELATED AGGREGATES

**HALF YEARLY EXAMINATION**

- INDIAN ECONOMY ON THE EVE OF INDEPENDENCE
- INDIAN ECONOMY 1950-1990
- LIBERALISATION, PRIVATISATION AND GLOBALISATION: AN APPRAISAL

**CURRENT CHALLENGES FACING INDIAN ECONOMY**

- HUMAN CAPITAL FORMATION
- RURAL DEVELOPMENT
- EMPLOYMENT: GROWTH INFORMALISATION AND OTHER ISSUES
- INFRASTRUCTURE

**INTRODUCTORY MACROECONOMICS**

- GOVERNMENT BUDGET AND THE ECONOMY
- NATIONAL INCOME AND RELATED AGGREGATES
- BALANCE OF PAYMENTS
- DETERMINATION OF INCOME AND EMPLOYMENT
- MONEY AND BANKING

**FIRST PRELIMINARY EXAMINATION**

**PORTION COVERED IN HALF YEARLY AND**

**INDIAN ECONOMIC DEVELOPMENT**

- ENVIRONMENT AND SUSTAINABLE DEVELOPMENT
- DEVELOPMENT EXPERIENCE OF INDIA:A COMPARISON WITH NEIGHBORS

**INTRODUCTORY MACROECONOMIC**

- BALANCE OF PAYMENTS - COMPLETE SYLLABUS
- COMPARATIVE DEVELOPMENT EXPERIENCE OF INDIA-A COMPARISON WITH NEIGHBOUR

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**SUBJECT- BUSINESS STUDIES**

**THEORY : 80 MARKS**

**PRACTICAL : 20 MARKS**

**1ST UNIT TEST**

- NATURE AND SIGNIFICANCE OF MANAGEMENT
- PRINCIPLES OF MANAGEMENT
- BUSINESS ENVIRONMENT
- PLANNING
- CONSUMER PROTECTION

**HALF YEARLY EXAMINATION**

- ORGANISING
- STAFFING
- DIRECTING
- CONTROLLING
- MARKETING
- ALONG WITH 1ST UNIT PORTION.

**1ST PRE BOARD EXAMINATION**

- NATURE AND SIGNIFICANCE OF MANAGEMENT
- PRINCIPLES OF MANAGEMENT
- BUSINESS ENVIRONMENT
- PLANNING
- MARKETING
- CONSUMER PROTECTION
- ORGANISING
- STAFFING
- DIRECTING
- CONTROLLING
- FINANCIAL MARKET
- FINANCIAL MANAGEMENT

**SECOND PRE BOARD EXAMINATION**

FULL SYLLABUS

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**SUBJECT: APPLIED MATHEMATICS**

**THEORY: 80**

**PRACTICALS: 20**

**FIRST UNIT TEST**

- ALGEBRA
- CALCULUS(UPTO MAXIMA AND MINIMA)

**HALF YEARLY EXAMINATION**

- ALGEBRA
- CALCULUS
- PROBABILITY DISTRIBUTION
- LINEAR PROGRAMMING
- NUMBERS, QUANTIFICATION AND NUMERICAL APPLICATIONS
- INFERENCE STATISTICS

**FIRST PRELIMINARY EXAMINATION**

FULL SYLLABUS

**SECOND PRELIMINARY EXAMINATION**

FULL SYLLABUS

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**D.A.V Public School, Nerul**  
**Activity List ( 2022-23)**  
**Senior Secondary Section**

Month	Date	Day	Activity
March	31/03/2022	Thursday	Session Begins for XII
April	30/04/2022	Saturday	No Cooking, Healthy Recipe (Competition) Std. - XII
May	02/05/2022	Monday	Summer Vacation Begins
June	13/06/2022	Monday	School Reopens for Std. - XII
	13/06/2022	Monday	Session Begins for Std. -XI
	21/06/2022	Tuesday	International Yoga Day
	24/06/2022	Friday	Each One Plant One (Std. XI & XII)
	25/06/2022	Saturday	1st Parent Teacher Interaction (Std. XI & XII)
	24/06/2022	Friday	Poster Making Competition (Std. XI & XII)
July	01/07/2022	Friday	Prefectorial Body Selection
	01/07/2022	Friday	Creative Blog Writing Competition (Std. XI & XII)
	08/07/2022	Friday	Poem Writing Competition (Std. XI & XII)
	22/07/2022	Friday	Inter House Quiz Competition
August	12/08/2022	Friday	Inter House Solo Singing Competition
	15/08/2022	Monday	Independence Day Celebration / Investiture ceremony
	20/08/2022	Saturday	2nd Parent Teacher Interaction (Std. XI & XII)
	22/08/2022 - 26/08/2022	Monday-Friday	1st Unit Test (Std. XI & XII)
September	05/09/2022	Monday	Teacher's Day Celebration
	09/09/2022	Friday	Inter House English Debate
	23/09/2022	Friday	Mime / AdMad

October	10/10/2022 - 19/10/2022	Monday - Wednesday	1st Term Exams (Std. XI & XII)
	14/10/2022	Friday	Stand-Up Comedy
	19/10/2022	Wednesday	Inter House Rangoli Competition
	29/10/2022	Saturday	3rd Parent Teacher Interaction (Std. XI & XII)
November	05/11/2022	Saturday	Photography Competition (Std. XI & XII)
	10/11/2022	Thursday	Shark Tank (Std. XI & XII)
	11/11/2022	Friday	Inter House Solo Dance Competition
	2nd Week		Picnic
	19/11/2022	Saturday	Science and Maths Exhibition
	19/11/2022	Saturday	Earn While You Learn (ED Project)
	19/11/2022	Sunday	Best Out Of Waste
December	12/12/2022 -16/12/2022	Monday - Friday	2nd Unit Test (Std. XI )
	12/12/2022 -21/12/2022	Monday - Wednesday	1st Preboard (Std. XII)
January	07/01/2023	Saturday	4th Parent Teacher Interaction (XI & XII)
	09/01/2023 - 18/01/2023	Monday - Wednesday	2nd Preboard for Std. - XII & Preboard for Std.- XI
	26/01/2023	Thursday	Republic Day Celebration
February	04/02/2023	Saturday	Farewell to (Std. - XII)
	18/02/2023	Saturday	5th Parent Teacher Interaction (XI & XII)
	3rd Week		Final Examination for (Std. - XI)
March	2nd Week		Declaration of Result (Std. - XI)
	2nd Week		New Academic Session Begins for (Std XII)

**PRINCIPAL**