



**Bharatiya Vidya
Bhavan's**

S. RAMAKRISHNAN MEMORIAL PUBLIC SCHOOL

AKAMALA



SYLLABUS BOOK

2026-27

CLASS - XI

SUBJECT-PHYSICAL EDUCATION

EXAM/MONTH	TOPIC	LEARNING OUTCOMES
JUNE	March Past rules and regulation of chess	Students will be able to: 1.Improve co-ordination 2.Understanding chess regulation
JULY	Khelo India physical fitness, rules and regulations of kabaddi	1. Increase speed and agility 2.Understanding rules and Regulation of kabaddi
AUGUST	Khelo India physical fitness test and rules of kho kho	1.Increase muscular strength and co-ordination 2. Understanding Kho-Kho rules
SEPTEMBER	Freeh and exercise, rules of badminton	1. Improve co-ordination 2.To Learn Badminton Rules
OCTOBER	Freehand exercise rules of volley ball	1. Improve Flexibility 2. Understanding Volleyball Rules
NOVEMBER	Major game of football	1.Increase Playing Agility Of Football
DECEMBER	Khelo India physical fitness test, rules of athletics	1.Improve Speed and Agility 2. Understanding Rules of Athletics

SUBJECT: -PHYSICS**TEXTBOOK: NCERT -PHYSICS TEXTBOOK FOR CLASS XI**

EXAM/MONTH	CHAPTERS/TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT -I SYLLABUS OF PERIODIC ASSESSMENT-I CHAPTERS -1,2	1.UNITS AND MEASUREMENT	Students will be able to Differentiate and use SI Units, symbols, nomenclature of physical quantities and formulations, conventions
	2.MOTION IN A STRAIGHT LINE	Interpret position-time and velocity time graphs ,Apply the kinematic equations to solve problems involving motion in a straight line.
PERIODIC ASSESSMENT -II SYLLABUS OF PERIODIC ASSESSMENT-I CHAPTERS - 1,2,3,,5,6	3. MOTION IN A PLANE	Apply vector algebra to explain two dimensional motion of objects moving in a plane.
	4.LAWS OF MOTION-	Relate the presence of balanced and unbalanced forces to the state of motion of an object. Apply laws of motion to explain states of motion, conservation of momentum.
	5.WORK, ENERGY &POWER	Explain Work done by a constant force and a variable force. Differentiate elastic and inelastic collisions
	6.SYSTEM OF PARTICLES AND ROTATIONAL MOTION	Explain momentum conservation and centre of mass motion. Relate processes and phenomenon with moment of a force, torque, angular momentum
PERIODIC ASSESSMENT-III	7.GRAVITATION	Formulate Universal law of gravitation. Calculate gravitational force and its impacts on objects including heavenly bodies.
	8. MECHANICAL PROPERTIES - SOLIDS	Explain processes and phenomena such as elastic behaviour, Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity.

<u>SYLLABUS OF PERIODIC ASSESSMENT-III</u> CHAPTERS: - 1,2,3,4,5,6,7,8,9,10	9.MECHANICAL PROPERTIES OF FLUIDS	Calculate pressure due to a fluid column; Pascal's law and its applications, Effect of gravity on fluid pressure.
	10.THERMAL PROPERTIES OF MATTER	Explains the phenomena Heat, temperature, thermal expansion; thermal expansion of solids, liquids, and gases. Differentiates heat transfer – conduction and thermal conductivity, convection and radiation.
ANNUAL EXAM <u>SYLLABUS OF ANNUAL EXAM- CHAPTERS-1 to 14</u>	11. THERMODYNAMICS	Relates thermal equilibrium and definition of temperature (zeroth law of Thermodynamics), laws of thermodynamics.
	12. KINETIC THEORY	Explains processes involving equation of state of a perfect gas, work done on compressing a gas.
	13. OSCILLATIONS	Calculate Period, frequency, displacement as a function of time. describe the characteristics of damped oscillations and forced oscillation including the effect of friction on oscillations.
	14. WAVES	Explain Periodic functions. Simple harmonic motion (SHM) and its equation, Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes

SUBJECT :- CHE

<u>SYLLABUS OF PERIODIC ASSESSMENT -II</u> CHAPTERS – 1 to 4	4.Chemical Bonding and Molecular Structure	Identify and compare types of chemical bonds, draw Lewis structures, predict molecular shapes using VSEPR theory, and explain hybridization and bonding in molecules.
	8.Organic Chemistry: Some basic Principles and Techniques	Classify organic compounds, apply IUPAC naming rules, identify functional groups, distinguish types of isomerism, and analyze purification and detection techniques.
	9.Hydrocarbons	Classify hydrocarbons as alkanes, alkenes, alkynes, and aromatic compounds, write IUPAC names, explain their physical and chemical properties, and describe reactions with suitable mechanisms.
<u>SYLLABUS OF PERIODIC ASSESSMENT -III</u> CHAPTERS – 1 to 4,8 &9, s & p Block Elements elements	s & p Block Elements elements(READING MATERIAL AS PER CURRICULUM	Classify elements into s- and p-blocks, compare their physical and chemical properties, explain trends in reactivity, and describe important compounds and their uses.
ANNUAL EXAM	5.Chemical Thermodynamics	Define system and surroundings, apply laws of thermodynamics, calculate enthalpy and internal energy changes, and interpret spontaneity using Gibbs free energy.

<u>SYLLABUS OF ANNUAL EXAM</u> CHAPTERS – 1 to 9	6.Equilibrium	Distinguish between physical and chemical equilibrium, apply the law of mass action, calculate equilibrium constants, and analyze factors affecting equilibrium using Le Chatelier's principle.
	7.Redox Reactions	Recognize oxidation and reduction processes, assign oxidation numbers, balance redox equations, and apply redox concepts in real-life and industrial processes.

SUBJECT :- BIOLOGY

TEXTBOOK: NCERT - BIOLOGY TEXTBOOK FOR CLASS XI

EXAM/MONTH	CHAPTERS/TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT -I <u>SYLLABUS OF PERIODIC ASSESSMENT -I</u> Chapters 1to 3	1) THE LIVING WORLD Biodiversity, Classification, Nomenclature	Applies scientific terminology for Binomial nomenclature of organisms
	2) BIOLOGICAL CLASSIFICATION Five Kingdom classification, salient features	Classifies organisms, phenomena and processes, based on certain characteristics / salient features systematically in more scientific and organized manner
	3) PLANT KINGDOM Classification of plants into major groups, salient and distinguishing features	Explains the salient features of the kingdom
PERIODIC ASSESSMENT -II <u>SYLLABUS OF PERIODIC ASSESSMENT -II</u> Chapters 1 to 7	4) ANIMAL KINGDOM Classification of animals into major groups, salient and distinguishing features	Explains the salient features of the kingdom
	5) MORPHOLOGY OF FLOWERING PLANTS Morphology of different parts of flowering plants	Draws labelled diagrams, flow charts, concept maps, graphs and floral diagrams
	6) ANATOMY OF FLOWERING PLANTS Anatomy and functions of tissue systems in dicots and monocots	Relates processes and phenomena with causes and effects
	7) STRUCTURAL ORGANISATION IN ANIMALS Morphology, Anatomy and functions of different body systems	Relates processes and phenomena with causes and effects

CLASS XI**SUBJECT: -COMPUTER SCIENCE****TEXTBOOK-COMPUTER SCIENCE WITH PYTHON BY SUMITA ARORA**

EXAM/MONTH	TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT-I SYLLABUS OF PERIODIC ASSESSMENT - I CHAPTER I & II	I. Computer Fundamentals Fundamentals of computer, Software Concepts, Data Representation II. Number System and Introduction to Problem solving Conversion between different Number System Algorithms ,Flowcharts Basic Programming concepts	Identify the components of computer system. Understands the basics of Number Systems. Identify the concepts of Algorithm & Flowchart.
PERIODIC ASSESSMENT-II SYLLABUS OF PERIODIC ASSESSMENT-II PA I+ ABOVE MENTIONED PORTIONS	III. Introduction to Python Conditional and Looping statements, Nested Loops, Break and Continue statements Functions User defined functions, Scope of a variable IV. Programming with Python Strings: introduction, string operations (concatenation, repetition, membership and slicing), traversing a string using loops, built-in functions/methods	Create Python programs using functions and conditional statements.
PERIODIC ASSESSMENT-III SYLLABUS OF PERIODIC ASSESSMENT-III	IV. Programming with Python Lists: introduction, indexing, list operations Tuples: introduction, indexing, tuple operations Dictionary: introduction, accessing items in a dictionary using keys, mutability of a dictionary (adding a	Understand python list and Dictionaries

CLASS –XI(2026-2027)

MATHEMATICS (041)

TEXTBOOK: NCERT

EXAM/MONTH	CHAPTERS/TOPIC	LEARNING OUTCOME
PERIOODIC ASSESSMENT- I <u>SYLLABUS OF PERIODIC ASSESSMENT –I</u> CHAPTERS-1,2 and 3	CHAPTER 1- SETS	Develops the idea of Set from the earlier learned concepts in number system and geometry and also the application of algebraic operations on Sets.
	CHAPTER 2- RELATIONS AND FUNCTIONS	Recognize the relation between different Sets and applying the concept of a function.
	CHAPTER 3- TRIGONOMETRIC FUNCTION	Relates earlier learned concept of trigonometric ratios to functions and evolves the idea of trigonometric functions
	CHAPTER 4- COMPLEX NUMBERS AND QUADRATIC EQUATIONS	Extends the idea of real numbers to a larger system of complex numbers.
PERIOODIC ASSESSMENT- II	CHAPTER 5 - LINEAR INEQUALITIES	Develop the skill to demonstrate strategies for solving systems of linear inequalities.
	CHAPTER 6- PERMUTATIONS AND COMBINATIONS	Applies the idea of permutations and combinations to daily life situations of arranging and grouping the objects. Develops the idea of Binomial theorem for a positive integral index from the earlier learned concepts of finding squares and cubes of binomials.
	CHAPTER 7- BINOMIAL THEOREM	Extend the ideas related to

<u>SYLLABUS OF ANNUAL EXAM-</u> CHAPTERS- 1,2,3,4,5,6,7,8,9,10,11,12,13 and 14	CHAPTER 14- PROBABILITY	Builds up the axiomatic approach to Probability through the terms, random experiment ,Sample space , events etc.
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CLASS XI
SUBJECT: -INFORMATICS PRACTICES
TEXTBOOK-NCERT

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SUBJECT:-BUSINESS STUDIES**CLASS XI****TEXT BOOK- NCERT**

EXAM/MONTH	TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT-I	Nature and purpose of Business Forms of Business organizations- Sole proprietorship and partnership	Knowledge about business. Meaning and definition. Classifies industry and commerce. Classifies different types of industries Identifies sole proprietorship and partnership and their features. Classifies different types of partnership firms and partners
PERIODIC ASSESSMENT-II	(PA I portion + Forms of business organization-co-operative society and company Public, private and global enterprises, Business services, emerging mode of business.	Understands co-operative societies, different forms. Differentiate public, private and global enterprises. Identify different business services- banks and insurance Realizes the emerging mode of business
PERIODIC ASSESSMENT-III	(PA I + PA II portions + Social responsibility Sources of business finance Small business and enterprises	Identify the social responsibility of the business towards different interest groups Learn different sources of business finance-long term and short term, internal and external, their merits and demerits Knowledge about MSMED Act, different small industrial agencies. Micro, medium and small industries
(ANNUAL EXAM)	(PA I + PA II + PAIII portion + Internal trade International trade Import and exports	Familiarizes different internal traders- both small and large- from the real-life situations, comparing their features and merits Acquiring knowledge about import and export. Learning the import procedure and export procedure Knowledge about different documents used in exporting

SUBJECT:-ACCOUNTANCY

CLASS XI

TEXT.BOOK: ACCOUNTANCY-.T.S.GREWAL

EXAM/MONTH	TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT-I	Introduction to Accounting. Theory base of Accounting Recording of transactions (Journal and Ledger) Trial balance	Understand the definition of Accounting and Book keeping. Understands business transactions knowledge to prepare journal and ledger to record the business transactions.
PERIODIC ASSESSMENT-II	(PA I portion + Recording of Business transactions Trial Balance and Rectification of errors Sub-divisions of Journal. GST	Knowledge to prepare Trial Balance Finding errors common in trial balance and learns to rectify the errors. Acquires knowledge to prepare different cash books, purchase book and sales book Calculate GST %
PERIODIC ASSESSMENT-III	(PA I+ PAII portions+ Bank Reconciliation Statement Depreciation, Reserves and Provisions	Learns to find the reasons for disagreement of cash book balance and bank pass book balance. Acquires knowledge to prepare Bank Reconciliation statement Defines Depreciation, Reserves and Provisions. Differentiate Reserves and Provisions Knowledge to prepare Depreciation A/C and Machinery A/c
ANNUAL EXAM	(PA I + PA II + PAIII+ Financial Statements with Adjustments Accounts from incomplete records	Knowledge to prepare Trading, Profit & Loss A/C and Balance Sheet with adjustments Preparing statements of profit from single entry

SUBJECT: ECONOMICS**CLASS: XI**

TEXTBOOK : **CORE ECONOMICS WITH VIDEO LECTURES includes**
STATISTICS FOR ECONOMICS and INTRODUCTORY
MICROECONOMICS for class XI by S.K Agarwal

EXAM/MONTH	TOPIC	LEARNING OUTCOME
PERIODIC ASSESSMENT– I <u>SYLLABUS OF PERIODIC ASSESSMENT – I</u> STATISTICS FOR ECONOMICS: UNIT : 1. INTRODUCTION UNIT : 2. COLLECTION AND ORGANISATION OF DATA INTRODUCTORY MICROECONOMICS: UNIT : 1. INTRODUCTION UNIT : 2. COLLECTION AND ORGANISATION OF DATA UNIT : 1. INTRODUCTION UNIT : 2. CONSUMER'S EQUILIBRIUM AND DEMAND [UPTO DEMAND]	<u>STATISTICS FOR ECONOMICS:</u> UNIT : 1. INTRODUCTION UNIT : 2. COLLECTION AND ORGANISATION OF DATA <u>INTRODUCTORY MICROECONOMICS:</u> UNIT : 1 INTRODUCTION UNIT : 2. CONSUMER'S EQUILIBRIUM AND DEMAND [UPTO DEMAND]	Describes some uses of Statistics in understanding of economic activities. Explains the meaning and purpose of data collection and organisation. Explains the difference between micro and macroeconomics including the problem of allocation of resources. Explains the relationship between demand and utility.
PERIODIC ASSESSMENT – II <u>SYLLABUS OF PERIODIC ASSESSMENT– II</u>	<u>STATISTICS FOR ECONOMICS:</u> UNIT : 2. PRESENTATION OF DATA UNIT : 3. STATISTICAL TOOLS AND INTERPRETATION -	Explains the meaning and purpose of data presentation. Describes the different types of averages used for the further treatment of data for

PORTIONS OF PERIODIC ASSESSMENT – I + STATISTICS FOR ECONOMICS: UNIT : 2. PRESENTATION OF DATA UNIT : 3. STATISTICAL TOOLS AND INTERPRETATION - MEASURES OF CENTRAL TENDENCY INTRODUCTORY MICROECONOMICS: UNIT : 2. CONSUMER'S EQUILIBRIUM AND DEMAND [DEMAND]	MEASURES OF CENTRAL TENDENCY <u>INTRODUCTORY MICROECONOMICS:</u> UNIT : 2. CONSUMER'S EQUILIBRIUM AND DEMAND [DEMAND]	deriving various policy measures and conclusions. Explains the relationship between demand and its various determinants, including the price elasticity of demand and also with an objective of applying the notions of demand in the day-to-day fields of economic as well as the commercial activities.
PERIODIC ASSESSMENT – III <u>SYLLABUS OF PERIODIC ASSESSMENT – III</u> PORTIONS OF PERIODIC ASSESSMENT – I + PORTIONS OF PERIODIC ASSESSMENT – II + STATISTICS FOR ECONOMICS: UNIT : 3	<u>STATISTICS FOR ECONOMICS:</u> UNIT : 3 STATISTICAL TOOLS AND INTERPRETATION - CORRELATION <u>INTRODUCTORY MICROECONOMICS:</u> UNIT : 3 PRODUCER BEHAVIOUR AND SUPPLY	Describes the meaning of correlation along with its properties and methods of calculating correlation along with its practical applications in the daily life. Describes what is production, as well as the relationship between the Total Product, Average Product Marginal Product and the different kinds of short run costs and revenue conditions of a firm and also explains about the conditions behind

STATISTICAL TOOLS AND INTERPRETATION - CORRELATION INTRODUCTORY MICROECONOMICS: UNIT :3 PRODUCER BEHAVIOUR AND SUPPLY		attaining the producer's equilibrium and the supply decisions of a firm as well as the measurement of the degree of supply with respect to change in the commodity price.
ANNUAL EXAMINATION <u>SYLLABUS OF ANNUAL EXAMINATION</u> PORTIONS OF PERIODIC ASSESSMENT – I + PORTIONS OF PERIODIC ASSESSMENT – II + PORTIONS OF PERIODIC ASSESSMENT – III + STATISTICS FOR ECONOMICS: UNIT : 3. STATISTICAL TOOLS AND INTERPRETATION - INTRODUCTION TO INDEX NUMBERS INTRODUCTORY MICROECONOMICS: UNIT : 4 FORMS OF MARKET AND PRICE	<u>STATISTICS FOR ECONOMICS:</u> UNIT : 3. STATISTICAL TOOLS AND INTERPRETATION - INTRODUCTION TO INDEX NUMBERS <u>INTRODUCTORY MICROECONOMICS:</u> UNIT : 4 FORMS OF MARKET AND PRICE DETERMINATION UNDER PERFECT COMPETITION WITH SIMPLE APPLICATIONS	Explains about the meaning, features and various types of Index Numbers which are highly used in the economic as well as the commercial scenario of India along with its uses and also explains broadly about how inflation and index numbers are interrelated based on practical applications. Explains the underlined features of the market structure of Perfect Competition, the reasons as well as the effects of shifts in demand and supply of various consumer goods on behalf of the conditions of Market Equilibrium and also the Simple Applications of Demand and Supply; i.e., price ceiling and price floor based on the policy decisions of the government..

DETERMINATION UNDER PERFECT COMPETITION WITH SIMPLE APPLICATIONS 100% SYLLABUS WILL BE THERE FOR ANNUAL EXAM		
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