	APP	ENDIX-4	
Plan c	of Exami	nation &	Syllabus
	Plan of I	Examinat	ion
There will be one question paper	of multip	le choice	objective type and each question will
carry 01 Marks. The aforesaid Que	estion pap	ber will be	divided into two parts:
Part first (1) – General Studies		30 Qu	estions
	(Objec	tive Type	e)
Part second (2) – Main Subject	_	120 Q	uestions
	(Objec	ctive Typ	e)
Total Number of Questions –	150		
Time Period		_	2.00 hrs. (120 Minutes)
Maximum Marks	_	150	
NOTE: For the post of Assist	ant Teac	her, Soc	ial Science (Men/Women Branch
there shall be 04 sections in the	e main s	ubject v	z. Geography, History, Economic
			ction. The candidates shall choos
any 02 sections out of the afores	said 04 se	ections a	nd answer them.
	0)//		
		LABUS	
	IECT - S	OCIAL S	CIENCE
(A) Geography:			
1-Geography - Meaning and Scor			
			n, Origin of the Earth-Kant Laplace
James and Jeans Revolution Ro	tation an	d inclinati	on of the earth and their effects. Sola

James and Jeans, Revolution, Rotation and inclination of the earth and their effects, Solar
and Lunar Eclipse, Latitude and Longitude, Geographic Reference System and
Geographic Positioning System, Prime Meridian, International Date Line and time.
3- Lithosphere: Interior of the Earth-Sial, Sima and Nife, Types of rocks and their
characteristics, Vulcanicity and Volcanoes-types and world distribution, Earthquakes-
origin and distribution, Distribution of continents and Ocean basins-Tetrahedral hypothesis
(Lowthian Green) and Continental Drift Theory (Alfred Wegener), Classification of
mountains and mountain building-Kober and plate tectonic theories, Plateau-general
characteristics and classification, Plains-origin and classification, Weathering and Erosion,
Davis's cycle of erosion and rejuvenation, Works of river, wind and glacier and resultant
land forms.
4- Atmosphere: Composition and Structure of the atmosphere, Insolation and factors
affecting its distribution, Temperature-its horizontal and vertical distribution, Pressure,
pressure belts and planetary, Winds, Monsoon origin and distribution, Forms of
Precipitation and types of rainfall, Climatic regions of the world- Thornthwaite and
Trewartha.
5- Hydroshpere- Relief of ocean basins, Temperature and Salinity of ocean water, Ocean
currents-origin and their effects, Tides-types and origin-Newton and Whewell.
 1

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APPENDIX-4	
Plan of Examination & Syllabus	
Plan of Examination	

There will be one question paper of multiple choice objective type and each question will carry 01 Marks. The aforesaid Question paper will be divided into two parts: Part first (1) - General Studies 30 Questions

	_	00 Que	5300113
	(Object	ive Type)
Part second (2) – Main Subject	-	120 Qı	uestions
(Objective Type)			
Total Number of Questions –	150		
Time Period		_	2.00 hrs. (120 Minutes)
Maximum Marks	_	150	

NOTE: For the post of Assistant Teacher, Social Science (Men/Women Branch) there shall be 04 sections in the main subject viz. Geography, History, Economics and Civics comprising of 60 questions in each section. The candidates shall choose any 02 sections out of the aforesaid 04 sections and answer them.

SYLLABUS SUBJECT - SOCIAL SCIENCE

(A) Geography:

1-Geography - Meaning and Scope.

2- Physical Geography: Solar system-introduction, Origin of the Earth-Kant Laplace, James and Jeans, Revolution, Rotation and inclination of the earth and their effects, Solar and Lunar Eclipse, Latitude and Longitude, Geographic Reference System and Geographic Positioning System, Prime Meridian, International Date Line and time.

3- Lithosphere: Interior of the Earth-Sial, Sima and Nife, Types of rocks and their characteristics, Vulcanicity and Volcanoes-types and world distribution, Earthquakesorigin and distribution, Distribution of continents and Ocean basins-Tetrahedral hypothesis (Lowthian Green) and Continental Drift Theory (Alfred Wegener) Classification of mountains and mountain building-Kober and plate tectonic theories Plateau-general characteristics and classification, Plains-origin and classification Weathering and Erosion, Davis's cycle of erosion and rejuvenation, Works of river, wind and glacier and resultant land forms.

4- Atmosphere: Composition and Structure of the atmosphere, Insolation and factors affecting its distribution, Temperature-its horizontal and vertical distribution, Pressure, pressure belts and planetary, Winds, Monsoon origin and distribution, Forms or Precipitation and types of rainfall, Climatic regions of the world- Thornthwaite and Trewartha.

5- Hydroshpere- Relief of ocean basins, Temperature and Salinity of ocean water, Ocean currents-origin and their effects, Tides-types and origin-Newton and Whewell.

6- Biosphere- Meaning and Concept, Concept of ecosystem and biosphere as an ecosystem, Biotic succession-primary and secondary, major biomes of the world.

7- Human Geography- Meaning and Scope-Huntington and Brunhes, Man-environment interrelationship-determination, possibilism and stop and-go determinism, world Population-growth and distribution, Demographic transition, Human races-classification and characteristic features and distribution of Caucasian and Mongolian races, Habitat. Economy and Society Of Bushman, Eskimo, Kirghiz, Gaddis, Tharus and Gonds.

8- Human Settlements- Meaning and fundamental elements, settlement types and patterns, Rural and Urban settlements, size categories of towns in India, Urbanization ir developing and developed countries, Mega cities of the World.

9- Economic Geography- Meaning and Scope, types of production-primary, secondary tertiary and quaternary, World Production and distribution of Rice, Wheat, Sugarcane, Tea Coffee and Rubber, Energy and mineral resources- coal petroleum, iron ore, bauxite and nonconventional energy resources, Factors of localization of industries-iron and Steel Cotton Textiles, Aluminium and Oil Refinery, Industrial Regions and their delineation and industrial regions of U.S.A and Japan, major trade routes and ports of the world.

10. Geography of India- Location, extent and international borders, Indian Oceaneconomic and Strategic importance, Physiographic and Drainage, Rainfall and its distribution, Vegetation, Climatic Regions Koppen, Trewartha and R.L. Singh, Fores resources and deforestation, Agriculture production, progress and problems, Green, Blue White, Yellow and Round revolutions in Agriculture, Major crops-production and distribution of Wheat, Rice, Sugarcane, Tea, Agricultural regions O. Slampa and B.L.C Johnson, Mineral and Energy resources-distribution and utilization of Iron Ore, Coal and Petroleum, Energy crisis and alternative sources of energy, Industrial location and distribution of Iron and Steel, Cotton Textiles, Cement, Industrial Region- P.P.Karan Population, Growth and Distribution, Population Policy of India, Urbanization, Means of transport-roads and railways, Foreign trade, Megacities and Major ports.

(B) History :

1. Salient features of Pre-Historic cultures of India.

2. Chief Characteristics of Indus Valley Civilization : (a) Town planning (b) Harappa and Mohanjodaro (c) Stone Sculpture and terracotta figurines, seals and sealings (d Religion.

3. Polity, society, economy and religion of the Early Vedic period: changes in Later Vedic Period

4. Salient Features of Jainism, Budhism, Vaishnavism and Shaivism

5. Mauryan Period : (a) Origin of the Mauryas (b) Achievements of Chandragapta Maurya (c) His administration and public works (d) Ashoka's Inscriptions (e) His Dhamma and and of Dhamma (f) Philanthronic works (a) Estimate of Ashoka (h) Causes of the

16. Development of modern education system and Constitutional Development

17. Revolt of 1857-causes, nature, and impact.

18. Renaissance in modern India, Social and Religious movements

19. Indian National Movement- Non-co-operation, Civil disobedience and Quit India movement.

20. Contributions of M.K.Gandhi , B.G. Tilak, Gokhale, and S.C. Bose in national movement.

21. Achievement of Independence - From Cripps Mission to Mountbatten Plan.

22. India after independence till 1950 A.D.

c) ECONOMICS:

1. Nature of Economics: Definition of economics, problem of choice, Micro and Macro Economics, Methods of static and dynamic analysis, Concept of equilibrium.

2. Consumer behavior and demand analysis: Equilibrium of consumer, Marshall Approach, Indifference curve analysis (price, income and substitution effects), Law of demand, Elasticity of demand and supply, its types and measurement, consumer surplus. 3. Production and Theories of Population: Producer's equilibrium, Laws of production-

laws of variable proportions and laws of returns to scale, Analysis of revenue and cost curves, Theories of population: Malthus, theory of optimum population, and theory of demographic transition.

4. Nature of Markets and Price Determination in different markets: Perfect competition, Imperfect and monopolistic competition, Monopoly.

5. Theory of Distribution: Marginal productivity theory of distribution, Wage determination in perfect and imperfect competition, Theories of rent Classical and Keynesian theories of interest, Theories of profit: Knight Schumpeter and J.K. Mehta.

6. Money, Banking, Inflation and Monetary Policy: Determination of Value of money -Fisher and Cambridge versions, Keynes' saving and investment theory, Functions of central bank, functions of Commercial Banks, Credit creation and control, Concept of money supply, Concept of inflation types, control and policy.

7. International Trade and Policy: Theory of absolute advantage, Theory of comparative cost, Gains from trade and terms of trade, Free trade vs. protection, Theories of foreign exchange determination. Balance of payments: problem and solution.

8. Public Finance and Fiscal Policy: Public vs. Private goods, Importance and theories of public expenditure, Nature of tax, types and principles of taxation, Types of public debt: Its raising and redemption.

9. Economic development: Economic systems, Market vs. State, Measuring economic development and use of International indices for the same, Importance of Savings and capital formation in development, Theories of economic development: Rostows' stages of economic growth, critical minimum effort, big push and unbalanced growth theory, Important international economic institutions : IMF, World Bank, WTO, BRICS etc.

10. Challenges in Indian Economy: Characteristics of Indian Economy, Progress and evaluation of five year plans, Niti Aayog and economic policies, Efforts and policy to improve agriculture productivity in India, Poverty, unemployment and skill development in India, Education health and nutrition, Population dividend, urbanization and migration in India, New trends and policy of industrial development, Fiscal policy and Budget management in India, Centre - State financial relations and co-operative federalism, Challenges of inclusive growth, Various dimensions of globalization, economic development and world trade.

(D) Civics

Political Theory: Civics: Definition, Nature and Scope State - Definition, Elements of State Origin of State: Divine Theory, Contract theory, Evolutionary Theory, Marxist Theory

Equality, Liberty and Rights

Sovereignty and Pluralism

Law and Theories of Punishment

Constitution: Definition and Classification, Government: Parliamentary, Presidential, Unitary and Federal

Organs of Government: Legislature, Executive and Judiciary Democracy and Dictatorship

Individualism, Liberalism, Scientific socialism, Fascism

Political Thinkers : Plato, Aristotle, Hobbes, Locke, Rousseau

Jermy Bentham, John Stuart Mill

Karl Marx Manu, Kautilya, Gandhi.

Indian Government and Politics:

Contribution of Gokhle, Tilak, Gandhi, Nehru, Subhash Chandra Bose and Dr. Bhim Rao Ambedkar in Freedom struggle.

Salient Features of Indian Constitution:

Fundamental Rights and Directive Principles of State Policy.

Federal System: Centre-State Relations

President, Council of Ministers, Parliament, Supreme Court, Judicial review State Government - Governor, Chief Minister, Legislature

Casteism, Regionalism and Communalism in Indian Politics

Political parties and Pressure Groups

Problem of national Integration

Electoral System, Election Commission, Electoral reforms

Indian Administration:

Role of Bureaucracy, District Administration, District Magistrate, Democratic

Downfall of the Mauryan Empire.	Decentralisation and Panchayati Naj. Eokparand Eokayukta
	Indian Foreign Policy:
6. Political History of the Gupta Dynasty : (a) Chandra Gupta I, (b) Samudra Gupta, (c)	
Chandra Gupta II, (d) Kumar Gupta I and (e) Skanda Gupta (f) Huna invansion and its	
impact (g) Causes of the Downfall of the Gupta Empire.	SYLLABUS
7. Chola Period : (a) Achievements of Rajaraja I (b) Achievements of Rajendra Chola I (c)	
Local Self Government (d) Chola Art and Culture.	(A) PHYSICS
8. Foreign Invasions: (a) Arab invasion and its impact (b) Ghazanavid invasion and their	General Physics & Mechanics
impact (c) Invasion of Mohammad Ghori and its impact.	Units and dimensions, vector and scalar quantities, products (scalar and vector),
9. Delhi Sultante (Political and Administrative History): Qutubuddin Aibak Iltutmish,	
Balban, Alauddin Khalji, Mohammad Bin Tughlaq , Ferozshah Tughlaq Invasion of Taimur	and Acceleration equations of motion, Kinetic and potential energy, Linear and angular
Sayyid and Lodhi Dynasties.	momentum, conservation of energy and momentum, conservative and non-conservative
10. Mughals (Political and Administrative History): Babur, Humayun, Akbar	forces, Rotatory motion, centrifugal and centripetal forces, gravitational force, central
Jahanghir, Shahjahan and Aurangzeb, The decline of Mughal Empire.	force, Kepler's laws of planetary motion, geo stationary, satellites, acceleration due to
11. Bahmani Empire, Vijaynagar Empire, rise and decline of the Marathas, Shivaji	gravity, escape velocity, simple and compound pendulums.
12. Medieval Culture - Religious policy, Sufism, Bhakti movement, Art and Architecture,	Moment of inertia, Theorems of parallel and perpendicular axes, Moment of
Literature.	inertia of ring, circular disc, sphere and cylinder, Angular momentum and Torque, Viscosity,
13. Medieval Society and Economy – Agriculture, Industry, Trade.	Streamline and Turbulent motion, critical velocity, Stoke's and Poissullis formula. Bernoulli
14. Expansion of East India Company.	
15. Agriculture, Trade and Industry in Modern India.	theorem and uses. Surface tension: Excess pressure inside curved surfaces, surface

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 (B) CHEMISTRY General Organic Chemistry- Hyper conjugation, Inductive effect, Resonance, and Aromaticity and their applications. Electrophiles and nucleophiles. and reaction intermediates (carbocation, carbanion, free radical, carbine and benzyne) Reaction mechanism- SN., SN., E., and E., reaction, electrophilic addition of alkenes, alkynes and free radical addition of alkenes. Nucleophilic addition of carbonyl compounds. Electophilic aromatic substitution, ortho/para/meta directing groups and activating and deactivating groups in ArSE reaction. Aldol reaction, Perkin reaction, Cannizzaro reaction, Benzoincondensation, Witting reaction, Reimer-Tiemann reaction, Hoffmann Bromamide reaction, Knoevenagel reaction, Michael addition. Carbohydrates: (only glucose and fructose) mutarotation formation of ozazone, oxidation and reduction. Polymer: Natural (starch, cellulose, rubber and silk) and synthetic polymers, Nylon, Terylene, Polyethylene, PVC, and Teflon). Isomerism: Structural and stereoisomerism (enantiomerism, diastereomerism R/S and E/Z nomenclature). Absorption Spectroscopy UV: Chromophore, auxochrome, bathochromic and hypsochromic shift, effect of conjugation and stability on λ_{max}. Woodward- Fieser rule for calculation of λ_{max} of polyenes. IR: Absorption frequency of Various functional groups and Factors on which V_{max} depend. Structure of Atom - Bohr's model, quantum numbers and Modern Atomic Theory. Periodic properties: Atomic and ionic radii, ionization potential, electron affinity, electronegalivity Lattice energy, hydration energy and their relation to solubility of ionic compounds. Chemical bonding: Ionic, covalent, coordinate and hydrogen bonding. Shape of molecules. Coordination Chemistry: 3d block elements, nomenclature of complexes, ligands (mondentate, bidentate, polydentate). Werner theory and valence bond theory, Biologically active coordination co	 Pteridophytes- General characters, Classification, characteristic features of different classes, steler system and economic importance of pteridophytes. Structure and life Cycle of Lycopodium, Selaginella, Equisetum and Marsilea. Heterospory and seed habit. Gymnosperm- General Character and affinities, Life cycle, classification characteristic features of different classes, Distribution and Economic importance. Structure and life cycle of Cycas, Pinus and Ephedra Paleobotany – Fossils types, Fossilization, geological time scale and its importance. Structure and Reproduction of Rhynia Taxonomy Of Angiosperms - Binomial nomenclature, Bentham and Hookers System of Classification, Important Botanical Garden and Herbaria Distinguishing features Of Ranunculaceae, Papavaraceae, Brassicaceae, Malvaceae, Fabaceae, Rosaceae, Cucurbitaceae, Lapiaceae, Asteraceae, Rubiaceae, Apocynaceae, Solanaceae, Acanthaceae, Lamiaceae, Euphorbiaceae, Liliaceae and Poaceae. Anatomy of Angiosperms- Tissue and tissue system, Anomalous secondary growth, anatomy of root, stem Anatomy of Tinospora root, Dracaena stem, Bignonia stem, Boerhavia stem and Nyctanthes stem Economic botany- Timber, fibers, oils, Medicinal, Beverages, Spices and condiments yielding Plants. Embryology-: Structure of anther, microsporogenesis, Development and organization of embryo Sac, pollination, fertilization, development of Endosperm, Embryo development, Parthenocarpy, Apomixis and polyembryony Cytology- Ultra Structure of plant cell with their typical cell organelles, Cell division and cell cycle. Genetics- Chromosome structure, chromosome aberrations, Law of inheritance, Gene interaction, Linkage and crossing over, Mutation and Polyploidy. Plant Physiology- Water absorption, ascent of sap, Transpiration, Mineral nutrition and deficiency, Photosynthesis, Respiration, Phy
	potato, White rust of crucifers, black rust of wheat, loose smut of wheat, citrus canker, little leaf of brinjal, yellow vein mosaic of bhindi.
of weak acid and Weak base, strong acid-weak base and weak acid- strong base. Solubility and solubility product. Dissociation constant of water(K_w), buffer solution and p^H of the buffer solution.	Biotechnology and genetic engineering- Importance in human welfare, vectors, recombinant DNA technology, transgenic plants, tissue culture, biopesticides and biofertilizers
<u>SYLLABUS</u> SUBJECT - BIOLOGY	Molecular Biology: Gene Concept, genetic code, Nucleic acids, replication of DNA, gene expression and Regulation.
(A) ZOOLOGY	Syllabus
 Principles of Taxonomy; concept of species and sub-species; Bionomial nomenclature. Classification and general characteristics of following Phyla: Protozoa, Porifera, 	Subject: Mathematics
Cnidaria, Ctenophora, Platyhelminthes, Aschelminthes, Annelida, Arthropoda, Mollusca,	Theory of equations, A.P., G.P. and H.P., sum of squares and cubes of natural numbers,
Echinodemata and Chordata 3. General organization and life history of representative of various Phyla: (i) Protozoa-	permutation and combination, binomial theorem, exponential and logarithmic series.
Entamoeba, Euglena, Plasmodium and Paramecium (ii) Porifera- Leucosolenia and	Algebra of sets, relation and function, types of relations, equivalence relation, types of functions, composition of functions, inverse of a function, binary operations on a set, group,
Sycon (iii) Cnidaria- Hydra, Aurelia and Obelia (iv) Ctenophora- Pleurobrachia (v) Platyhelminthes- Fasciola and Taenia (vi) Aschelminthes- Ascaris (vii) Annelida-	
Nereis, Pheretima and Hirudinaria (viii) Arthropoda- Cockroach, Musca, Mosquito and	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group,
	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its
Prawn (ix) Mollusca- Unio and Pila (x) Echinodermata- Star fish (xi) Chordata-	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group,
Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit.	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving
	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and non-poisonous snakes (vi) Economic importance of mammals. 	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and non-poisonous snakes (vi) Economic importance of mammals. 5. Prokaryotic and eukaryotic cells; Ultra-structure of animal cell; Function of cell 	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences,
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and non-poisonous snakes (vi) Economic importance of mammals. 	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences, convergent sequences, convergence of series of positive terms, comparison test, Cauchy's nth root test, ratio test,
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and non-poisonous snakes (vi) Economic importance of mammals. 5. Prokaryotic and eukaryotic cells; Ultra-structure of animal cell; Function of cell organelles; Types of chromosomes; structure of genes and genetic code, Mitosis and meiosis. 6. Mendel's laws of inheritance, Linkage and crossing over, Eugenics; Organic evolution, 	subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences, convergence of series of positive terms, comparison test, Cauchy's nth root test, ratio test, Raabe's test, logarithmic test, De Morgan and Bertrand test. alternating series and Leibnitz test.
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and nonpoisonous snakes (vi) Economic importance of mammals. 5. Prokaryotic and eukaryotic cells; Ultra-structure of animal cell; Function of cell organelles; Types of chromosomes; structure of genes and genetic code, Mitosis and meiosis. 6. Mendel's laws of inheritance, Linkage and crossing over, Eugenics; Organic evolution, Evidences of organic evolution, Theories of organic evolution, Lamarckism, Neo- 	 subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences, convergence of series of positive terms, comparison test, Cauchy's nth root test, ratio test, Raabe's test, logarithmic test, De Morgan and Bertrand test. alternating series and Leibnitz test. 3- Vector Analysis
 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and non-poisonous snakes (vi) Economic importance of mammals. 5. Prokaryotic and eukaryotic cells; Ultra-structure of animal cell; Function of cell organelles; Types of chromosomes; structure of genes and genetic code, Mitosis and meiosis. 6. Mendel's laws of inheritance, Linkage and crossing over, Eugenics; Organic evolution, 	 subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences, convergence of series of positive terms, comparison test, Cauchy's nth root test, ratio test, Raabe's test, logarithmic test, De Morgan and Bertrand test. alternating series and Leibnitz test. 3- Vector Analysis Operations with vectors, scalar and vector product of two and three vectors and its
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 Herdmania, Amphioxus; Scoliodon, Rana, Uromastrix, Columba, Rabbit. 4. Brief knowledge of (i) Protozoa and diseases (ii) Polymorphism in Cnidarians (iii) Helminthes and diseases (iv) Harmful and beneficial Insects (v) Poisonous and nonpoisonous snakes (vi) Economic importance of mammals. 5. Prokaryotic and eukaryotic cells; Ultra-structure of animal cell; Function of cell organelles; Types of chromosomes; structure of genes and genetic code, Mitosis and meiosis. 6. Mendel's laws of inheritance, Linkage and crossing over, Eugenics; Organic evolution, Evidences of organic evolution, Theories of organic evolution, Lamarckism, Neo-Lamarckism, Darwinism, Neo-Darwinism, Processes of evolution, Mutation, Evolution through ages, Evolution of man 7. Ecology, Components of ecosystem and major Ecosystems; Environmental pollution. 8. Elementary knowledge of (i) digestion (ii) respiration (iii) blood and Circulation (iv) 	 subgroup, normal subgroup, quotient group, cyclic group, order of an element in a group, permutation group, even and odd permutations, Lagrange's theorem and its consequences, group homomorphism. Determinants, types of matrices, algebraic operations on matrices, symmetric and skew symmetric matrices, Hermitian and skew Hermitian matrices, inverse of a matrix, rank of a matrix, application of matrix in solving system of linear equations, eigen values, eigen vectors of a matrix, Cayley-Hamilton's theorem and its applications. 2-Real Analysis Sequence of real numbers, bounded and monotonic sequences, convergent sequences, convergence of series of positive terms, comparison test, Cauchy's nth root test, ratio test, Raabe's test, logarithmic test, De Morgan and Bertrand test. alternating series and Leibnitz test. 3- Vector Analysis Operations with vectors, scalar and vector product of two and three vectors and its applications, vector differentiation, gradient, divergence and curl, 4-Complex Analysis Complex numbers, functions of a complex variable, De-Moivre's theorem and its
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 11. Biogeography, Zoogeographical realms and their characteristic fauna. (B) Botany Viruses- Definition, Nature, Transmission Structure of TMV, Bacteriophage, Viroids and Prions, Econornic Importance of viruses. Bacteria- Structure of Bacterial Cell, Nutrition, Reproduction and Economic Importance. Fungi - General characters, structure, nutrition, reproduction and economic importance of fungi, Classification (Alexoppolus and Mims), characteristic features of different classes. Structure and life cycle of Rhizopus, Pythium, Albugo, Aspergillus, Agaricus, Puccinia, Ustilago and Alternaria. Algae: General characters, Classification, characteristic features of different classes, Algal pigments, Economic Importance of algae. Structute and life cycle of Chlamydomonas, Volvox, Oedogonium, Vaucharia, Chara, Ectocarpus, Batrachospermurn, Polysiphonia and Blue Green Algae (Nostoc and Anabaena), Lichens-Nature, Types, Structure, Reproduction and Economic Importance Bryophytes- General character, Classification, characteristic features of different classes of different classes, Reproduction and Economic Importance 	 application of integration to find area bounded by curves, length of a curve, surface area and volumes of solids of revolution. Solutions of differential equations of first order and of first degree. 6-Geometry General equation of second degree and its classification as pair of straight lines, circle, parabola, ellipse and hyperbola, Asymptotes of hyperbola, Transferring of origin and rotation of axis. Direction cosines and direction ratio's of a line, Cartesian and Vector equation of a plane, Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines, angle between two planes, two lines, a line and a plane, distance of a point from a plane, sphere, cone and cylinder. 7-Statistics and Probability Frequency distribution. Graphical representation of statistical data. Measures of central
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	learning disabilities.
SYLLABUS	5- Clothing and Textiles-
COMMERCE	Importance, classification of fibres, its chemistry and manufacture. History of Textiles,
1- Accountancy: Concept and Principles; Double Entry System- Journal, Ledger; Trial	Traditional textiles, Spinning weaving, knitting, history manufacture properties of cotton
Balance, Final Accounts with adjustment entries, Partnership-Admission, Retirement and	linen wool silk rayon nylon Sewing machine and its care, Pattern making, washing- care,
Death Accounts, Company Accounts – Types of shares, Accounting for issue and forfeiture	colouring of clothes, selection of fabrics at different occasions. Embroidery, finished, Tie
of shares, Royalty, Hire Purchase and Departmental Accounts.	and Dye, and Batic printing, Factors affecting selection of clothes. Washing techniques,
2-Business Organization & Management: Meaning and nature of Trade and	stain removal.
Commerce, Forms of Business Organization – Sole Trader, Partnership and Company.	6-Human Physiology
Nature and functions of marketing, Indigenous and Foreign trade, Management - nature, scope and principles, Contributions of F.W. Taylor and Henry Fayol, Functions of	Cell and Tissues-Meaning, Definition and structure, Type of tissues (with example)
management – Planning, organizing, staffing, Directing and Controlling, Business	Skeletal- Muscular system structure, type, function, joint types, Cartilage structure of
environment – Economic, Social, Political & Cultural.	muscles.
<u>3-Business Economics:</u> Concept and Scope, Demand Curve analysis, Elasticity of	Digestive System:- introduction of alimentary canal and its parts, mouth and oral cavity,
Demand, Marginal utility, Total utility and Law of diminishing marginal utility, Laws of	pharynx, oesophagus stomach and intestine
returns, Price determination under perfect competition and monopoly, Trade cycle,	7-Research and statistics:
Population theories. Indian Economy- position, problems and suggestions.	Research its meaning scope, objectives, sources of data, tools and techniques of
<u>4-Money & Banking:</u> Definition, scope and functions of Money, Importance of money in	research, Different type of researches and its application. Frequency, mean, mode
capitalistic and socialistic economy, Gresham's Law, Quantity theory of money, Inflation	median, diagrammatic and graphic presentation of data, primary and secondary data.
and deflation, Types of Banks, Functions of Commercial Banks and Reserve Bank of India,	8-Health and Hygiene
Digital Banking and E-Banking.	Unit 1- Definition of health and Hygiene, primary health care principles, common
5-Statistics: Meaning, scope and importance, Collection, Classification and Tabulation of	accidents and care at home. measuring of blood pressure, pulse and body temperature.
data, Measures of Central Tendency- Mean, Median and Mode, Measurement of	types of pollution and prevention. health check-up.
Dispersion.	
Auditing: Definition, objectives and importance of auditing, Meaning, types and	Unit -2 - Environmental Security
importance of Vouching, Procedures of vouching of primary books.	(i) Energy- use of different types of smokeless chulha and use of solar cooker and
Syllabus	induction plate.
Home Science	(ii) Water security-
1-Extension Education	safe drinking water techniques
Unit -1	importance of quality of water, methods of purification of water such as filtering, use of
Extension Education — Concept meaning, goals principles and Functions. Formal, Non-	faucet tap water, water alarm, use of clorine and use of modern technology.
formal and informal education.	(iii) Food Security- Grain storage methods, methods of cooking and preservation
Educational Psychology- Concept meaning, aims and it relationship With extension	techniques.
education and its application in Extension Education.	(iv) Livelihood Security - Job opportunities in Govt. And Private Sector. self
Unit-2	startup.(self employment)
Community Development- Concept, Meaning, Scope, Objective and organization.	9- First Aid and Health
Panchayati Raj System - concept organization, evaluation and its functions	First aid-Meaning, principles, Things required in first aid box
Development Programmes - run by State and Central Govt. for the welfare of women and	Bandages- Types, uses, types of fracture, Sprain, Artificial respiration, dislocation,
children under different five vear plans.	bleeding and pressure point.
children under different five year plans. Leadership — Concept, definition, types functions and principles Dynamics of leadership.	bleeding and pressure point. Care & Maintenance- Care of patient and patient room, house-hold remedies for
children under different five year plans. Leadership — Concept, definition, types functions and principles Dynamics of leadership. Unit-3-	
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(Digestive, Excretory, circulatory, Blood, Blood groups, Haemoglobin, Diet-during different disorders-Diarrehea Constipation, Blood pressure, Dibeties, Kidney disorders, Elementary chemistry of carbohydrates, Protins, Fats, function, sources and classification and deficiency symptoms, Minerals and vitamins Community nutrition, nutrition education, objectives and functions, Assessment of nutritional status, R.D.A. Nutrition education programmes.

4-Human development and family studies

Meaning, Concept, significance, developmental tasks and stages. **Principles of development-** prenatal development, birth process and stages. **Life span development-** Physical, motor, social, emotional, moral, coginitive, speech, play, creativity and personality development. **Preschool Education-** need, significance and importance, educational philosophies and programmes. **Theories of Human Development-** Frued, Erikson, Piaget, Pavlav and Skinner, Kohlberg, Maslow. **Family Relationships-** Influence of family, Parental attitude, child training methods on family relationships, Broken homes, single parents families and reconstituted families, Juvenile delinquents. **Children with special needs-** Definition, labelling, mainstreaming, classification, Physically challenged, mentally challenged, speech impairment, hearing impairment, Visual impairment and

Walcott's "A for Cry from Africa"

C. Drama: Trends and movements in drama in English with special reference to the following: Shakespeare's Macbeth, Twelfth Night and Merchant of Venice, Ben Jonosn' Every Man in his Humour, Dryden's All for Love, Bernard Shaw's Arms and the Man, Galsworthy's Justice, Harold Pinter's The Birthday Party, Eugene O' Neill's The Hairy Ape, Arthur Miller's. All my Sons and Girish Karnad's Hayavadana.

D. Prose and Fiction: Trends and movements in prose and fiction in English with special reference to the following: Francis Bacon's "Of Studies" and "Of Truth", Addison's "Sir Roger at Home' "Will Wimble", Steele's "The Spectator Club" Lamb's "Dream Children", E. V. Lucas' "Tight Corners", A. G. Gardiner's "In Defence of Ignorance", Bertrand Russell's "The Road to Happiness", Richard Wright's "Twelve Million Black Voices", Mahatma Gandhi's My Experiments with Truth, Jawaharlal Nehru's The Discovery of India, Maughm's "The Luncheon"; Anita Desai's "A Farewell Party" Katherine Mansfield's "The. Fly", 0' Henry's "The Last Leaf"; Fielding's Joseph Andrews, Jane Austen's Pride and Prejudice, Dickens' Great Expectations, Hardy's The Mayor of ,Casterbridge, George .0rwell's Animal Farm, Woolf's Mrs- DalloWay, Golding"s Lord of the Flies', Hawthorne's The Scarlet Letter, Hemingway's The Old Man and the Sea, Steinbeck's The Grapes of Wrath, Raja Rao's Kanthapura, R K Narayan's The Bachelor of Arts; Kamala' Markandeya's Two Virgins and Chinua Achebe's Things Fall Apart.

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Microbiology, Diseases caused by Microbes Elementary Physiology of Different system- Philosophy", Kamala Das's "An Introduction", A K Ramanujan's "Obituary" and Derek

Size - 25 x 38 = 950 Sq. Cm.

	1
SYLLABUS	Functions and Protocols, Overview of Application layer protocol.
Subject: Hindi (1)	Software Engineering: Definition, Software development, and life-cycle models, CMM,
हिन्दी साहित्य का इतिहास–आदिकाल, भक्तिकाल–संत काव्य, सूफी काव्य, रामकाव्य, कृष्ण काव्य, रीतिकाल, आधुनिक	
काल– भारतेन्दु युग, द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद, नयी कविता।	Specification, Software Project Planning, Software Architecture, Software Design and
हिन्दी गद्य साहित्य का विकास–निबन्ध, नाटक, उपन्यास, कहानी, जीवनी, आत्मकथा, संस्मरण, रेखाचित्र,	implementation, Software Testing and Reliability
यात्रा–साहित्य, व्यंग्य।	Internet Technology, Web Design and Web Technology: Internet Technology and
हिन्दी के रचनाकार एवं उनकी रचनाएँ	Protocol, Internet Connectivity, Internet Network, Services on Internet, Electronic Mail,
काव्य का स्वरूप, रस–अवयव, भेद, छन्द (दोहा, रोला, सोरठा, चौपाई, बरवै, छप्पय, हरिंगीतिका, इन्द्रवजा, उपेन्द्रवजा,	Current Trends on Internet, Web Publishing and Browsing, HTML Programming Basics
वंशस्थ, बसंततिलका, कवित्त, सवैया)— लक्षण और उदाहरण, अलंकार (अनुप्रास, यमक, श्लेष, वक्रोक्ति, उपमा, रूपक,	Interactivity Tools Internet. Security Management Concepts, Information Privacy and
उत्प्रेक्षा, अतिशयोक्ति, प्रतीप, संदेह, भ्रांतिमान, अत्युक्ति, अनन्वय) काव्यगुण, काव्य दोष।	Copyright Issues, Web Technology: protocols, development strategies, applications, Web
हिन्दी की विभाषाएं, बोलियॉ, हिन्दी की शब्द सम्पदा, हिन्दी की ध्वनियॉ, देवनागरी लिपि–नामकरण, विकास, विशेषताएं,	project and team. Web Page Designing, Scripting, Server Site Programming.
सीमाएं, सुधार के प्रयत्न ।	System Analysis And Design: Analysis and Design of a System, documenting and
व्याकरण– कारक, लिंग वचन, उपसर्ग, प्रत्यय, वर्तनी एवं वाक्य–शुद्वीकरण, पर्यायवाची, विलोम, श्रुति समभिन्नार्थक	evaluating the system, Data Modelling, Development of Information Management
शब्द, वाक्यांश के लिए एक शब्द, मुहावरा, लोकोक्ति।	System, Implementation, Testing and Security Aspects.
संस्कृत साहित्यः	Information Security and Cyber Laws: Distributed Information Systems, Role of
(क) संस्कृत के प्रमुख रचनाकार एवं उनकी रचनाएं– कालिदास, भवभूति, भारवि, माघ, दण्डी, श्रीहर्ष, बाणभट्ट ।	Internet and Web services, Threats and attacks, Assessing-Damages, Security in Mobile
(ख) सन्धि—स्वर, व्यंजन एवं विसर्ग, समास, शब्द रूप, सर्वनाम रूप एवं धातु रूप, कारक प्रयोग ।	and Wireless Computing, Security Threats to E-Commerce, E-Governance and EDI,
(ग) अनुवाद	Concepts in Electronics payment systems, E-Cash, Credit/Debit Cards. Physica
	Security-Needs Disaster and Controls, Basic Tenets of Physical Security and Physical
<u>SYLLABUS</u>	Entry Controls, Access Control. Model of Cryptographic Systems, Design and
Subject: Agriculture	
Definition, concept, scope and development of Agronomy, Climate based	Implementation Issues, Policies, Network Security, Attacks, Need of Intrusion 'Monitoring
classification of crops. Environmental factors affecting crop production. Weather forecast.	and Detection, Intrusion Detection. Security metrics- Classification and their benefits.
Scientific cultivation of important cereals, pulses, Oil seeds, fodder. Fibre and cash crops.	Information Security & Laws, Ethics- Ethical Issues, Issues in Data and Software Privacy.
Concept of horticulture, its importance and scope. Orcharding and kitchen	Overview and types of Cyber Crimes.
gardening. Scientific cultivation of major fruits and vegetable crops of U.P. Principles and	Computer Graphics Types of computer graphics,-Graphic Displays Random scar
methods of fruit and vegetable preservation. Causes of spoilage of fruits and vegetable	
products.	generating algorithms, Transformations, Windowing and Clipping, Three Dimensiona
Definition of soil. Soil formation and development Physical, Chemical and	graphics, Curves and Surfaces, Hidden Lines and Surfaces.
Biological properties of soil. Soils of U.P. Essential plant nutrients and their deficiency	SYLLABUS
symptoms. Manures, fertilizers and biofertilizers, problem soils and their reclamation. Soil	SUBJECT- ART
erosion, causes and control measures. Soil testing.	Unit-1
Absorption of water and plant nutrients. Elementary idea of photosynthesis,	Elements of Painting, Medium, Technique and principles of Composition.
respiration and transpiration. Types of seed and their quality.	(A) Ancient Traditional and modern medium and Techniques of Painting.
Sources and methods of irrigation. Quality of irrigation water. Moisture conservation .	Unit-2
Types of drainage-their merits and demerits.	Concepts of Eastern and Western Aesthetics-Definitions, Thinkers, Principles of Art and
Classification of pesticides, control measures of different weeds, insects and diseases of	Inter-relationship of arts. (A) Six limbs of Indian Art.
important cereal, fruits and vegetable crops.	Unit-3
Farm machinery and their maintenance. Tillage, intercultural and spraying	Indian Pre-historic, Ancient, Classical, and Medieval Art-Development, Style and Specific
equipments.	area.
Important breeds of cows, buffaloes, sheep and goats. Methods of animal breeding.	(A)Indian Modern, and Contemporary Art-Art Groups, Painters, Sculptors, Print-makers,
Principles of feeding. Maintenance and production ration: Description, symptoms,	
diagnosis and treatments of anthrax, foot and mouth, disease, rinderpest, mastitis and milk	Thinkers and their concepts.
fever.	Unit-4
Farm records. Revenue records of holdings: Village and agricultural development	European Pre-historic, Ancient, Classical and Medieval Arts- Development, Style and
programmes of Central and State Governments Agricultural Universities, KVK and	Specific Area.
other extension organizations.	(A)Modern Art of Europe, Art-Groups, Isms, Painters, Sculptors, Print-makers, Thinkers
SYLLABUS	and their concepts.
Subject: Computer	Unit-5
Digital Logic and Circuits and Discrete Mathematical Structures: Number Systems,	Indian Contemporary Art-Art. Scenerio Artists, Art activities and Current trends.
Boolean algebra and Logic Gates, Simplification of Boolean Functions, Combinational	Art market, Art Criticism and Art- thought.
Circuits, Sequential Circuits, Memory circuits, Sets, Relations & Functions, Mathematical	
Logic, Boolean algebra, Combinatorics & Recurrence Relations, Graph theory.	Music
Computer Organization and Architecture: Stored Program Concept, Components of a	1-Vocal
Computer System, Machine Instruction, Op codes and Operands, Instruction Cycle,	
Organization of. Central Processing Unit, ALU, Hardwired & Micro programmed Control	of Shuddha and vikrit Swaras according to Sharangdev, Ahobal, Lochan SriNiwas
Unit; General Purpose and Special Purpose Registers. Memory Organization, I/O	
Organization, Functioning of CPU, Instruction Formats, Instruction Types, Addressing	
Modes, Common Microprocessor Instructions, Multi-core Architecture, Multiprocessor and	
Multicomputer.	string of veena according of Pt. Sri Nivas, Sarana- chatustaie, Musical quality of Sound
Data Structures and Algorithm: Definition and types, Linear Structures, Non-Linear Data	
Structures, Hashing and Collision Resolution Techniques. Searching and Sorting,	melody, Echo, Resonance, Reverberation, Various kinds of chords Salient Features of
Algorithms, Analyzing. Algorithms, Complexity of algorithms, Growth of functions,	western Staff -Notation and its comparison with Pt. Bhatkhande and Pt. Vishnu Digambar
Performance measurements, Advanced Data Structures, Red-Black trees, B - trees,	Pulaskar.
Binomial Heaps, Fibonacci Heaps. Introduction to Design Techniques: Divide and	Notation system: Classification of Ragas, Classification of instruments, Comparative
Conquer, Greedy algorithms, Optimal Reliability Allocation, Knapsack, Minimum Spanning	Study of Northern and Southern, Music Systems (with special reference to Raga and Tala),
trees Prim's and Kruskal's algorithms, Single source shortest paths - Dijkstra's and	
Bellman Ford algorithms. Dynamic Programming, Kanpsack, All pair shortest paths -	period of music, Short notes on Varna, Alankar, Pakad, Vakara Swara, Kan Murki, Gamak
Warshal's and Floyd's algorithms, Resource allocation problem. Backtracking, Branch and	
Bound with examples such as Travelling Salesman, Problem, Graph Coloring, n-Queen	Deshi ,Nibaddha, Anibaddha, Gaan, Ragalaap, Roopalaap, Alaptigaan, Alpatva
Problem, Hamiltonian Cycles and Sum of subsets. Algebraic computation, fast Fourier	Bahutva, Abirbhav- Tirobhav, Ardhadarshak Swar, Raga, and its Time -theory, Sandh
Transform, String Matching, Theory of NP- completeness, Approximation algorithms and	Prakash Raga, Poorv and Uttar Raga, Parmal — Praveshak Raga, Merits and demerits o
Randomized algorithms.	Gayaka, Study of Styles of Dhrupad, Dhamar, Thumari, Tappa, Tarana, Chaturang, Trivat
Problem Solving through C Programming: Basic Programming Concepts, Introduction	Study of main Treaties of music: Natyashastra, Brahadeshi, Sangeet Ratnakar
to: C Programming Language and programming in C	
Object Oriented Techniques: Object orientation, Encapsulation, information hiding,	Biographies of eminent artists - Swami Haridas, Tansen, Pt. Bhatkhande Pt. Vishnu
	Biographies of eminent artists — Swami Haridas, Tansen, Pt. Bhatkhande Pt. Vishnu Digambar Pulaskar Ameer Khusro, Pt. Ravishankar, Pt. Onkar nath Thakur. Nikhil Bannergee.

polymorphism, generosity, Object Oriented modelling, UML, Structural Modelling, Behavioural. Modelling and Architectural Modelling. Object Oriented Analysis, Object oriented design, Object design. Structured analysis and structured design (SA/SD), lockean Structured Development (ISD). Object oriented programming other lateraturation of the structured design.

Jackson Structured Development (JSD). Object oriented programming style. Introduction	l o tagge state
tacked burg best optimine (bb), object of the programming style. In a butget	2. Instrumental:
to Java, Java Beans, Enterprise Java beans (EJB), Java Swing; Java as interne	Study of different instruments- Tabla, Sitar, Tanpura, Pakhawaj, Sarangi, Guitar, Voilin,
programming language. The connectivity model, JDBC/ODBC, Bridge, Introduction t	^o Harmonium. Ten Pranas of Talas, Varna, Laya, and study of Laykaries; Deshi and Margi
servlets.	talas, study of Sam-Visham Talas, Shortnotes on taal- Tali, theka, Sam, Khali, Avartan,
Operating System: Definition, Design Goals, Evolution, Structure and Functions of	
Operating System. Process Management, Memory Management, Concurrent Processes	vibilag, restrictia, Cat, Rayda, rukia, valieties of raran, rata, rea, restrictia, Damuar
File and Secondary Storage Management, UNIX and Shell Programming, Window	^s Mukhra,Tripalli, Chaupalli, Chakradaar bol, Laggi, Ladi,' Jhala, Jod, krantan,
Programming	Jamzama,Murki, Parts of Tabla, Tuning methods of Tabla, Recognition of instruments by
Database Management Systems: Database Systems, View of Data Models, Databas	e its given bols, recognition of talas by given Bols of Theka, Historical description of
Languages, DBMS Architecture, Database Users and Data Independence. ER Modelling	
Relational Model, Introduction to SQL Relational Database Design, Database Securit	
	T Pesnkia, Unakaluar Gal-Tukia, Lava, Tala, Rela,
Transaction Management, introduction to Query. Processing and Query Optimization	^{1,} Study of various Talas- Teental, Chartal, Ektal, Dhamar, Roopak, Keharwa, Adachartal,
Concurrency Control, and Recovery Techniques.	Deepchandi, Gazjhampa, Teevra, Jhoomra, Seven Talas of Karnatak Music, Study of
Computer Networks: Network definition, network topologies, network classifications	
network protocol, layered network architecture, overview of OSI reference. Model, TCP/I	different Gharanas and Baj of Sitar and. Tabla, Biography of Eminent artists- Pt. Siddhar
protocol suite. Data Communication Fundamentals and Techniques, Networks Switchin	Iknan Pi Kanine Manarai Pi Guda Manarai Pi Ram Sanai Anmed Jaan I
	Y Lhirakwa Nana Sahah Danca. Di Rhairay Sahai NikhilBannariaa. Manilal Naa, Vilavat L
Techniques and Access mechanisms, Data Link Layer Functions and Protocol, Multiple	e Khan Imdad Khan Ali Akhar Khan Lal li Srivstava
Access Protocol and Networks, Networks Layer Functions and Protocols, Transport Layer	r

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<u>Syllabus</u> **Subject-Physical Education** 1. Principle and History of Physical Education-

Meaning and Definition of Physical Education, Its Aim and Objectives, Need and Importance of Physical Education, Biological Basis of Physical Education, History of Physical Education in India and world. Olympic game, Asian Game, Common Wealth Game, Afro Asian Game, Important Sports Institutes of India.

2. Psychology in Physical Education- Definition and Importance of Psychology in Physical Education, Define Learning, Laws of Learning and Transfer of Learning, Principle of Learning, Learning Curve, Developmental Characteristics at Different stages of Development, Meaning and Types of Intelligence, Intelligence Quotient, Theories of

Intelligence, Meaning. and Definition of Personality, Types of Personality, Meaning and Types of Motivation, Play Theory.

3. Organisation and Supervision in Physical Education- Meaning and Importance of Organisation and Supervision, Budget, Principle of Management, Leadership and its Types, Competition - Knockout, League, Combination and Challenge, competition, Extramural and Intramural Competition, Meaning and definition of Recreation, Aims and Objectives of Recreation, Meaning of Camp, Aims and objectives of camp, Types of camp.

Anatomy and Physiology in Physical Education- Meaning and Definition of Anatomy and Physiology, cell and tissue, Muscular System, Circulatory System, Respiratory System, Digestive System, Excretory System, Nervous System, Skeleton System Endocrine System, Sense Organ, Effect of Exercise on different system.

.5. Kinesiology in Physical Education-Meaning and Definition of Kinesiology, Fundamental Movement in Body, Structure and Types of Joint, Newton's Law of motion, Levers, Equilibrium, Centre of Gravity, Force, Axis and Planes.

6. Sports Medicine- Meaning of Body Posture and Common deformities, Sports Injuries (Common Sports Injuries and their treatment), Therapeutics modalities and procedures, Massage and its Types.

7. Health Education- Meaning and definition of Health, Dimensions of Health, Meaning Objective, scope and Principles of Health Education, Communicable Diseases and treatment, Nutrition, Personal Hygiene.

8-Sport's Theory And Rules-Athletics, Football, Hockey, Volleyball, Basketball, Kabaddi, Kho-Kho, Boxing, Gymnastics, Cricket, Hand Ball, badminton, Lawn Tennis, Swimming Yoga.

9. Sports Training- Meaning, Definition and Principles of sports Training, Qualities and responsibilities of good coach and Official, Meaning and component of physical fitness Load and Adaptation, Super compensation, Periodization, Training Methods.

10. Test and Measurement- Meaning, Definition and Importance of Test an measurement, Criteria of a good Test, AAPHER Test, Harvard Step Test, Soccer skill Tes Hockey skill Test, Volleyball Skill Test, Flexibility Test.

SYLLABUS Subject: Sanskrit

गद्य, पद्य एवं नाटक—

अधोलिखित— ग्रन्थों के निर्धारित अंशो के आधार पर शब्दार्थ— विवेचन, सूक्ति, व्याकरणात्मक टिप्पणी एवं चरित्र—चित्र से सम्बद्ध प्रश्न:

कठोपनिषद् (प्रथम वल्ली), श्रीमद्भगवद्गीता (द्वितीय अध्याय), अभिज्ञानशाकुन्तलम् (चतुर्थ अंक), मेघदूतम (पूर्वमेघ किरातार्जुनीयम् (प्रथम सर्ग) कादम्बरी– (शुकनासोपदेश), नीतिशतकम् (सम्पूर्ण) उत्तररामचरितम् (तृतीय अंक) ए शिवराजविजयम्, (प्रथम निःश्वास) ।

व्याकरण–

प्रत्यय ।

लघुसिद्वान्तकौमुदी के आधार पर प्रत्याहार, सन्धि, समास, कारक, प्रत्यय एवं शब्दरूपों तथा धातू– रूपों से सम्बद्व प्रश्न **प्रत्याहार—** प्रत्याहारों का परिचय | सन्धिः- अच् सन्धि, व्यंजन सन्धि एवं विसर्ग सन्धि। समासः– अव्ययीभाव, तत्पुरूष, कर्मधारय, द्विगु, द्वन्द्व एवं बहुव्रीहि समास। कारकः— विभकत्यर्थ—प्रकरण।

सर्वनाम–शब्दः– सर्व, यत्, तत्, किम, एतत्, इदम्, अस्मद्, युष्मद् शब्दों के रूप। धातू—रूपः— भू, गम्, पठ्, दृश्, अस्, पा, लभ्, हन्, दा, कथ्, प्रच्छ, लिख्, वद्, कृ, तथा ज्ञा धातुओं के लट्, लोट्, लृट, लड् और विधिलिड़ में रूप।

संख्यावाचक शब्द:– एक से सौ तक की संख्याओं के संस्कृत शब्दों का ज्ञान।

वाच्य- परिवर्तन अशूद्वि-परिमार्जन।

सुभाषित एवं सूक्तियॉः— संस्कृत सुभाषित एवं सूक्तियों का परिज्ञान।

साहित्य का इतिहासः— रामायण, महाभारत, रघुवंश, कुमारसम्भव, किरातार्जुनीय, शिशुपालवध, नैशधीयचरित, प्रतिमानाटक, स्वप्नवासवदत्त, मुद्राराक्षस, अभिज्ञानशाकुन्तल, दशकुमारचरित, कादम्बरी एवं पंचतंत्र काव्यों का सामान्य परिचय ।

SYLLABUS Subject: Urdu

1- उर्दू ज़बान की मुखतसर तारीख (पैदाइश और इरतेका)।

2- दिल्ली और लखनऊ के दबिस्तान-ए-शायरी।

3- उर्दू शायरी का इर्तिका।

4– उर्दू अस्नाफे नज्म–ओ नस्र (गज़ल, कसीदा, मसनवी, मर्सिया, नज्म, दास्तान, नावेल, ड्रामा, अफसाना) ।

5— तरक्की पसन्द तहरीक (इब्तेदा और इर्तिका)।

6- मशहूर किताबें- बाग-ओ-बहार, फसानए अजाइब, फसानए आजाद, शेरूल, अजम, मवाजनए अनीस-ओ-दबीर, हमारी शायरी

7– मशहूर मुसन्निफीन और शोअरा–मीर अम्मन, रज्जब अली बेग सुरूर, सर सय्यद अहमद खॉ, अबूल कलाम आजाद मौलाना मुहम्मद हुसैन आजाद, मीर तकीमीर, जौक, गालिब, मोमिन, इकबाल, चकबस्त, अकबर इलाहाबादी, फिराक, फैज अहमद फैज, जोश।

8- कबाइदः जमाना (माजी, हाल, मुस्तकबिल), तजकीर–ओ–तानीस, वाहिद, जमा, तशबीह, इस्तेआरा, तजनीस, हस्ने तालील, तलमीह, तजाद, लफ–ओ–तथ्र, इरम, जमीर, सिफ्त, फेल, मुहावरे और कहावतें।

9- जदीद दौर के मशहूर शायर और अदीब, अखतरूल ईमान- नासिर काजमी, शहरयार, मीरा जी, नून, मीम, राशिद——– प्रोo एहतेशाम ह्सैन, शमर्स्तरहमान फारुकी, आले अहमद सुरूर, कलीम उद्दीन अहमद, डाo मुहम्मद हसन ।

10— अख्बारात, रिसाले।

SYLLABUS **GENERAL STUDIES**

(1) History of India and Indian National movement:- In History of India emphasis should be on broad understanding of social, economic and politic aspects of Indian history. In the Indian National movement, the candidates are expected to have synoptic view of the freedom movement, growth of nationalist and attainment of Independence.

(2) Indian and World Geography- Physical, Social, Economic Geography of India and the World :- Questions on the Geography of India will relate to Physical, Social & Economic Geography of India. In World Geography only general understanding of the subject will be expected.

(3) Indian Polity and Governance, Constitution, Political system, Panchayati Raj & Public Policy, rights-issues etc :- Indian polity and Governance questions will test knowledge of country's Constitution, political- system including Panchayati Raj and Community Development.

(4) Indian Economy and Social Development :- The candidates will be tested withrespect to problems and relationship between population. Environment, Urbanisation. broad features of economic policy in India and Indian Culture.

(5) Current Events of National and International Importance:- This will also include questions on Games & Sports.

(6) Indian Agriculture :- The candidates will be expected to have general Understanding of agriculture in India, agricultural produce and its marketing.

(7) General Science :- Questions On General Science will cover general appreciation and Understanding of science including matters of everyday observation and special study of any scientific discipline. This will also include questions on role of science and technology in the development of India.

(8) Elementary Mathematics up to class 10th level :- Arithmetic, Algebra and Geometry. Note:-The candidates are expected to have general awareness about the above topics **प्रत्ययः**— क्त्वा (ल्यप), क्त, क्तवतु, शतृ, शानच, ल्युट, तुमुन, ण्वुल, तृच, अनीयर, तव्यत्, घञ, क्तिन, मतुप एवं अ with special reference to UP.

शब्द —रूप अकारान्त, इकारान्त, उकारान्त एवं ऋकारान्त, पुल्लिंग, स्त्रीलिंग तथा नपुसंकलिंग शब्दों के रूप।

SECRETARY

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