

**DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F**

Syllabus for 2021-22

**SPLIT UP SYLLABUS- CLASS XII ENGLISH CORE 2021- 22**

Month	Flamingo Prose	Flamingo Poem	Vistas (Supplementary Reader)	Reading/ Writing
April- May	1. The Last Lesson	1. My Mother at 66 2. An Elementary School classroom in a Slum	1. The Third Level	Notice Advertisements
June- July	2. Lost Spring 3. Deep Water	3. Keeping Quiet	2. The Tiger King 3. Journey To the end of the Earth	Business Letters - Making Enquiries - Registering complaints Article Writing
August	4. The Rattrap	4. A Thing of Beauty	4. The Enemy	Poster Placing orders & sending replies Debate
September		REVISION	SA 1	
October	5. Indigo	5. A Roadside Stand	5. Should Wizard Hit Mommy	Invitation & Replies to Invitation (Formal) Application for a Job
November	6. Poets and Pancakes 7. The Interview Part- 1	6. Aunt Jennifer's Tigers	6. On The Face of It	Invitation & Replies to Invitations (Informal) Speech
December	7. The Interview Part- 2 8. Going Places	Revision	7. Evans Tries an O Level 8. Memories of Childhood	Revision of Letters Report Writing
January		REVISION	PRE- BOARD	
February	STRUCTURED	REVISION		

**BLUE PRINT**  
**(SA- I)**

Subject: English

Time: 3 Hrs.

S. NO. Of The questions		Long Answer	Short Writing Task I	Short Writing Task II	MCQ	TOTAL MARKS
1. 2.	Part – A (Reading Comprehension)	_____	_____	_____	10 10	20
3. 4. 5.	Part – A (Literature)	_____	_____	_____	8 4 8	20
6. 7. 8. 9.	Part- B (Writing)	5 5	3 3	_____	_____	16
10. 11. 12. 13.	Part- B (Literature)	5 5	_____	5*2= 10 2*2= 4		24
	Total	20	06	10+4=14	40	80

**डीएवी पब्लिक स्कूल**  
**पाठ्यक्रम-मासिक**  
**सत्र 2021-22**

कक्षा –बारहवीं

विषय - हिंदी

मास	आरोह भाग 2	वितान भाग 2	अभिव्यक्ति और माध्यम	सृजनात्मक गतिविधियां
अप्रैल	पद्य-आत्म परिचय, दिन जल्दी -जल्दी ढलता है , गद्य -भक्तिन	सिल्वरवैडिंग	समाचार,फीचर, आलेख	कविता वाचन
मई	पद्य -पतंग,कविता के बहाने ,बात सीधी थी पर,		जनसंचार( विभिन्न माध्यमों के लिए लेखन)	
जून	गद्य-बाजार दर्शन , पद्य-कैमरे में बंद अपाहिज	जूझ	कैसे बनती है कविता ,सामान्य लेखन -निबंध तथा औपचारिक पत्र	भाषण
जुलाई	गद्य-काले मेघा पानी दे , पद्य-सहर्ष स्वीकारा है		जनसंचार( पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया ,विशेष लेखन स्वरूप और प्रकार	
अगस्त	गद्य-पहलवान की ढोलक , पद्य-उषा	अतीत में दबे पांव	नाटक लिखने का व्याकरण, कैसे लिखें कहानी	परियोजना कार्य
सितंबर	पुनरावृत्ति,अर्धवार्षिक परीक्षा			
अक्टूबर	पद्य-कवितावली(उत्तरकांड से ) लक्ष्मण -मूर्च्छा और राम का विलाप, गद्य-चार्ली चैपलिन यानी हम सब		सामान्य लेखन- निबंध तथा औपचारिक पत्र	वाद विवाद
नवंबर	पद्य-रूबाइयां, गजल , गद्य-नमक			
दिसंबर	पद्य-छोटा मेरा खेत ,बगुलों के पंख	डायरी के पन्ने	कैसे बनता है रेडियो नाटक	प्रश्नोत्तरी
जनवरी	गद्य-शिरीष के फूल, श्रम विभाजन और जाति - प्रथा		नए और अप्रत्याशित विषयों पर लेखन	
फरवरी	पुनरावृत्ति, वार्षिक परीक्षा			

परीक्षा भार विभाजन				
खंड अ (वस्तुपरक प्रश्न)				
विषयवस्तु			उप भार	कुल भार
1	अपठित गद्यांश (चिंतन क्षमता एवं अभिव्यक्ति कौशल पर बहुविकल्पात्मक प्रश्न पूछे जाएंगे)		15	
	अ	दो अपठित गद्यांशों में से कोई एक गद्यांश करना होगा। (450-500 शब्दों के) (1अंक x 10 प्रश्न)	10	10
	ब	दो अपठित पद्यांशों में से कोई एक पद्यांश करना होगा। (250-250 शब्दों के) (1अंक x 5 प्रश्न)	05	05
2	कार्यालयी हिंदी और रचनात्मक लेखन (‘अभिव्यक्ति और माध्यम’ पुस्तक के आधार पर)		05	
	अ	अभिव्यक्ति और माध्यम पुस्तक से बहुविकल्पात्मक प्रश्न (1अंक x 5 प्रश्न)	05	05
3	पाठ्यपुस्तक आरोह भाग – 2 से बहुविकल्पात्मक प्रश्न		10	

	अ	पठित काव्यांश पर पाँच बहुविकल्पी प्रश्न (1अंक x 05 प्रश्न)	05	
	ब	पठित गद्यांश पर पाँच बहुविकल्पी प्रश्न। (1अंक x 05 प्रश्न)	05	
4	अनुपूरक पाठ्यपुस्तक वितान भाग-2 से बहुविकल्पात्मक प्रश्न		10	
	अ	पठित पाठों पर सात बहुविकल्पी प्रश्न। (1अंक x 10 प्रश्न)	10	

परीक्षा भार विभाजन			
खंड ब (वर्णनात्मक प्रश्न)			
विषयवस्तु			उप भार
			कुल भार
5	कार्यालयी हिंदी और रचनात्मक लेखन		20
1	दिए गए तीन नए और अप्रत्याशित विषयों में से किसी एक विषय पर लगभग 150 शब्दों में रचनात्मक लेखन (5 अंक x 1 प्रश्न)	05	
2	औपचारिक विषय से संबंधित पत्र लेखन। (5 अंक x 1 प्रश्न) (विकल्प सहित)	05	
3	कविता/कहानी/नाटक की रचना प्रक्रिया पर आधारित दो लघुउत्तरीय प्रश्न (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न) (विकल्प सहित)	05	
4	समाचार लेखन (उल्टा पिरामिड शैली)/फीचर लेखन/आलेख लेखन पर आधारित दो लघुउत्तरीय प्रश्न (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न) (विकल्प सहित)	05	
6	पाठ्यपुस्तक आरोह भाग – 2		20
1	काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 2 प्रश्न)	6	
2	काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 30-40 शब्दों में) (2 अंक x 2 प्रश्न)	4	
3	गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 2 प्रश्न)	6	
4	गद्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 30-40 शब्दों में) (2 अंक x 2 प्रश्न)	4	
कुल अंक			80
7	(अ) श्रवण तथा वाचन	10	20
	(ब) परियोजना कार्य	10	
कुल अंक			100

**D.A.V PUBLIC SCHOOLS ,JHARKHAND ZONE-F**  
**MONTH WISE SYLLABUS (SESSION 2021-22)**  
**CLASS :XII ,SUBJECT :MATHEMATICS**

MONTH	CHAPTER'S NUMBER AND NAME (AS PER NCERT BOOK)	TOPICS
APRIL	CHAPTER 5: Continuity and Differentiability	Continuity and differentiability, derivative of composite functions, chain rule, derivatives of implicit functions and inverse trigonometric functions. Concept of exponential and logarithmic Functions. Logarithmic differentiation, Parametric Differentiation, Higher order derivatives, Rolle's theorem and Lagrange's mean value theorem (without proof) and their geometric interpretations.
MAY	CHAPTER 3 :Matrices	Matrices, Types of matrices, Algebra of matrices (Addition, subtraction, scalar multiplication, multiplication of two matrices), symmetric and skew-symmetric matrices, Existence of Inverse, Calculation of inverse of 2x2 and 3x3 matrices, using elementary operations.
	CHAPTER 4: Determinants	Determinants, its properties, area of triangle, adjoint, inverse of a matrix, solving linear equations by matrix method.
JUNE	CHAPTER 2: Inverse Trigonometric Functions	Inverse trigonometric functions, Introduction, Basic concepts, Properties of Inverse Trigonometric Functions and their graphs
JULY	CHAPTER 1: Relations and Functions	Relation and Functions: Introduction, Type of Relations, Types of Functions, Composition of functions and Invertible Functions.
	CHAPTER 6: Applications of derivatives	Application of derivatives (i) First derivative as rate measure (ii) Errors and approximations (iii) Tangent and Normals (iv) Increasing and decreasing functions (v) Maxima and Minima,
AUGUST	CHAPTER 7: Integrals	Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, only simple integrals of the type $\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}$
	CHAPTER 7: Integrals	

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**CLASS :XII ,SUBJECT :MATHEMATICS**

AUGUST (continued)	(continued)	$\int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^2 + bx + c}}$ $\int \frac{(px + q)}{ax^2 + bx + c} dx, \int \frac{(px + q)}{\sqrt{ax^2 + bx + c}} dx$ $\int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$ $\int \sqrt{ax^2 + bx + c} dx, \int (px + q)\sqrt{ax^2 + bx + c} dx$ <p>to be evaluated.          Definite integrals as a limit of a sum, Fundamental Theorem of Calculus (without proof).          Basic properties of definite integrals and evaluation of definite integrals.</p>
SEPTEMBER	REVISION for First Terminal, and First Terminal	
	CHAPTER 8: Application of Integrals	Applications in finding the area under simple curves, especially lines, areas of circles/ parabolas/ellipses (in standard form only), area between the two above said curves (the region should be clearly identifiable).
OCTOBER	CHAPTER 9: Differential Equations	Definition, order and degree, general and particular solutions of a differential equation. Formation of differential equation whose general solution is given. Solution of differential equations by method of separation of variables, homogeneous differential equations of first order and first degree. Solutions of linear differential equation of the type: (i) $\frac{dy}{dx} + py = q$ , where $p$ and $q$ are either functions of $x$ alone or are constants. (ii) $\frac{dx}{dy} + px = q$ , where $p$ and $q$ are either functions of $y$ alone or are constants.

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**MONTH WISE SYLLABUS (SESSION 2021-22)**  
**CLASS :XII ,SUBJECT :MATHEMATICS**

OCTOBER (continued)	CHAPTER 10: Vectors	Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of vectors. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Scalar (dot) product of vectors, projection of a vector on a line. Vector (cross) product of vectors.
NOVEMBER	CHAPTER 11: Three dimensional geometry	Direction cosines and direction ratios of a line joining two points. Cartesian and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Angle between (i) two lines, (ii) two planes. (iii) a line and a plane. Distance of a point from a plane. Family of planes
	CHAPTER 12: Linear programming,	Introduction, definition of related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems, mathematical formulation of L.P. problems, graphical method of solution for problems in two variables, feasible and infeasible regions, feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).
	CHAPTER 13 :Probability	Multiplication theorem on probability. Conditional probability, independent events, total probability.
DECEMBER	CHAPTER 13: Probability(Continued)	Baye's theorem, Random variable and its probability distribution, mean and variance of random variable. Repeated independent (Bernoulli) trials and Binomial distribution.



**D.A.V PUBLIC SCHOOLS ,JHARKHAND ZONE-F**  
**MONTH WISE SYLLABUS (SESSION 2021-22)**  
**CLASS :XII ,SUBJECT :MATHEMATICS**  
**Term-1 syllabus/Blue-print for MATHEMATICS**  
**( Session 2021-22)**

**Class: XII**

**Full marks: 80(Theory)**

Chapter Number (As per NCERT book)	Chapter's Name	Weightage	Number of Questions carrying 1 mark	Number of Questions carrying 2 marks	Number of Questions carrying 3 marks	Number of Questions carrying 4 marks	Number of Questions carrying 5 marks	Number of Questions carrying 6 marks
1	Relations and Functions	8	3	1	1	-	-	-
2	Inverse Trigonometric Functions	8	3	1	1	-	-	-
3 4	Matrices and Determinants	20	6	3	1	-	1	
5	Continuity and Differentiability	16	4	2	1	-	1	-
6	Application of Derivatives	14	6	1	2	-	-	
7	Indefinite Integrals and Definite Integrals	14	2	2	1	-	1	
	<b>Total Marks</b>	<b>80</b>	<b>24</b>	<b>20</b>	<b>21</b>		<b>15</b>	

**DAV PUBLIC SCHOOLS , JHARKHAND ZONE-F**  
**Monthly Syllabus for Class XII (21-22)**  
**Subject: Physical Education (048)**

Month - April & May

Unit I Planning in Sports

Unit II Sports & Nutrition

Month - June & July

Unit III Yoga & Lifestyle

Unit IV Physical Education & Sports for CWSN(Children with Special Needs-*Divyang*)

Month - August

Unit V Children & Women in Sports

Unit VI Test & Measurement in Sports

Month - September

Unit VII Physiology & Injuries in Sports

Unit VIII Biomechanics & Sports

Month - October

Unit IX Psychology & Sports

Month - November

Unit X Training in Sports

Month –December & January

- Revision

# **Term – 1 Blueprint for the subject PHE for the session 2021-22**

**Class: XII**

**Full Mark: 70(Th.) + 30 (Pr)**

<b>Chapter No.</b>	<b>Chapter Name</b>	<b>Weightage</b>	<b>No of questions carrying 1 mark</b>	<b>No of questions carrying 3 marks</b>	<b>No of questions carrying 3 marks</b>	<b>No of questions carrying 5 marks</b>
<b>1</b>	<b>Planning in Sports</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>2</b>	<b>Sports &amp; Nutrition</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>3</b>	<b>Yoga &amp; Lifestyle</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>4</b>	<b>Physical education and sports for CWSN (children with special needs - Divyang)</b>	<b>10</b>	<b>4</b>	<b>--</b>	<b>2</b>	<b>--</b>
<b>5</b>	<b>Children &amp; Women in Sports</b>	<b>15</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
		<b>70 MARKS</b>	<b>(1 x 12 = 12)</b>	<b>(2 x 4 = 12)</b>	<b>(3 x 10 = 30)</b>	<b>(5 x 4 = 20)</b>

**D.A.V PUBLIC SCHOOLS F-ZONE**  
**DISTRIBUTION OF SYLLABUS MONTH WISE**  
**SUBJECT: CHEMISTRY CLASS :XII**

**MONTHS**

**APRIL -Unit I: Solid State**

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties. Band theory of metals, conductors, semiconductors and insulators and n and p type semiconductors.

**Unit II: Solutions**

Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties, abnormal molecular mass, Van't Hoff factor.

**MAY- Unit III: Electrochemistry**

Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis and law of electrolysis (elementary idea), dry cell-electrolytic cells and Galvanic cells, lead accumulator, fuel cells, corrosion.

**Unit IV: Chemical Kinetics**

Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions), concept of collision theory (elementary idea, no mathematical treatment), activation energy, Arrhenius equation.

#### JUNE-UnitV: Surface Chemistry

Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids, catalysis: homogenous and heterogenous, activity and selectivity of solid catalysts; enzyme catalysis, colloidal state: distinction between true solutions, colloids and suspension; lyophilic, lyophobic, multi-molecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion - types of emulsions.

#### Unit VI: General Principles and Processes of Isolation of Elements

Principles and methods of extraction - concentration, oxidation, reduction - electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

#### JULY-Unit VII:p-Block Elements

Group -15 Elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; Nitrogen preparation properties and uses; compounds of Nitrogen: preparation and properties of Ammonia and Nitric Acid, Oxides of Nitrogen (Structure only); Phosphorus - allotropic forms, compounds of Phosphorus: Preparation and properties of Phosphine, Halides and Oxoacids (elementary idea only).

## Unit VIII: d and f Block Elements

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation, preparation and properties of  $K_2Cr_2O_7$  and  $KMnO_4$ .

## AUGUST-Unit IX: Coordination Compounds

Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT; structure and stereoisomerism, importance of coordination compounds (in qualitative analysis, extraction of metals and biological system).

## Unit X: Haloalkanes and Haloarenes.

Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.

Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).

SEPTEMBER-Uses and environmental effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

## FIRST TERM EXAMINATION

## OCTOBER- Unit XI: Alcohols, Phenols and Ethers

Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration, uses with special reference to methanol and ethanol.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

#### Unit XII: Aldehydes, Ketones and Carboxylic Acids

Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

#### Unit XIII: Amines

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines

#### NOVEMBER-XIII: Amines ( CONT.)

.Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

#### Unit XIV: Biomolecules

Carbohydrates - Classification (aldoses and ketoses), monosaccharides (glucose and fructose), D-L configuration oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen); Importance of carbohydrates.

Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins; enzymes. Hormones - Elementary idea excluding structure.

Vitamins - Classification and functions

## Unit XV: Polymers

Classification - natural and synthetic, methods of polymerization (addition and condensation), copolymerization, some important polymers: natural and synthetic like polythene, nylon polyesters, bakelite, rubber. Biodegradable and non-biodegradable polymers.

## Unit XVI: Chemistry in Everyday life

Chemicals in medicines - analgesics, tranquilizers antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.

Chemicals in food - preservatives, artificial sweetening agents, elementary idea of antioxidants.

DECEMBER – REVISION OF WHOLE SYLLABUS

JAN- PRE- BOARD EXAMINATION



**BLUE PRINT OF THE QUESTION PAPER FOR FIRST TERMINAL EXAMINATION 21-22**

<b>TOPIC</b>	<b>1- MARK QUESTION</b>	<b>2- MARKS QUESTION</b>	<b>3-MARKS QUESTION</b>	<b>5-MARKS QUESTION</b>
SOLID STATE	2	1	1	
Solutions			1	1
Electrochemistry	4	2		
Chemical Kinetics	1	2	1	
Surface Chemistry	1	1	1	
p-Block Elements	7			1
d and f Block Elements			1	1
Coordination Compounds	3		1	
Haloalkanes and Haloarenes	2	1	1	
TOTAL =	20 QUESTION	7 QUESTION	7 QUESTION	5 QUESTION

# DAV PUBLIC SCHOOL JHARKHAND ZONE-F

SESSION -2021-2022

CLASS XII

UNIT	TITLE	MARKS
VI	Reproduction	14
VII	Genetics and Evolution	18
VIII	Biology and Human Welfare	14
IX	Biotechnology and its Applications	10
X	Ecology and Environment	14
	<b>TOTAL</b>	<b>70</b>

## **FIRST-TERM SYLLABUS (APRIL-AUGUST)**

### **Unit-VI Reproduction**

#### **Chapter-1: Reproduction in Organisms**

Reproduction, a characteristic feature of all organisms for continuation of species; modes of reproduction - asexual and sexual reproduction; asexual reproduction - binary fission, sporulation, budding, gemmule formation, fragmentation; vegetative propagation in plants; events in sexual reproduction.

#### **Chapter-2: Sexual Reproduction in Flowering Plants**

Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.

#### **Chapter-3: Human Reproduction**

Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).

#### **Chapter-4: Reproductive Health**

Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods; medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT, AI (brief overview).

## **Unit-VII Genetics and Evolution**

### **Chapter-5: Principles of Inheritance and Variation**

Heredity and variation, Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; linkage and crossing over; Sex determination - in human being, birds, grasshopper and honey bee; Mutation, Pedigree analysis, sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans – sickle cell anaemia, Phenylketonuria, thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

### **Chapter-6: Molecular Basis of Inheritance**

Structure of DNA and RNA; DNA packaging; Search for genetic material and DNA as genetic material; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Human genome project; DNA fingerprinting.

### **Chapter-7: Evolution**

Origin of life; biological evolution and evidences for biological evolution (paleontology, comparative anatomy, embryology and molecular evidences); adaptive radiation; Biological evolution: Lamarck's theory of use and disuse of organs, Darwin's theory of evolution; mechanism of evolution - variation (mutation and recombination) and natural selection with examples, types of natural selection; Gene flow and genetic drift; Hardy - Weinberg's principle; brief account of evolution; human evolution.

## **Unit-VIII Biology and Human Welfare**

### **Chapter-8: Human Health and Diseases**

Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.

## **PRE - BOARD SYLLABUS(OCTOBER-NOVEMBER)**

**(Pre – Board Syllabus also includes First-Term Syllabus)**

### **Chapter-9: Strategies for Enhancement in Food Production**

Animal husbandry, Plant breeding, tissue culture, single cell protein.

### **Chapter-10: Microbes in Human Welfare**

Microbes in food processing, industrial production, Antibiotics; production and judicious use, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers.

## **Unit-IX Biotechnology and its Applications**

### **Chapter-11: Biotechnology**

- Principles and Processes Genetic Engineering (Recombinant DNA Technology).

### **Chapter-12: Biotechnology and its Application**

Application of biotechnology in health and agriculture: genetically modified organisms - Bt crops; RNA interference, Human insulin, gene therapy; molecular diagnosis; transgenic animals; biosafety issues, biopiracy and patents.

## **Unit-X Ecology and Environment**

### **Chapter-13: Organisms and Populations**

Organisms and environment: Habitat and niche, abiotic factors, ecological adaptations; population interactions - mutualism, competition, predation, parasitism, commensalism; population attributes - growth, birth rate and death rate, age distribution.

### **Chapter-14: Ecosystem**

Ecosystem: structure and function; productivity and decomposition; energy flow; pyramids of number, biomass, energy; nutrient cycles (carbon and phosphorous); ecological succession; ecological services - carbon fixation, pollination, seed dispersal, oxygen release (in brief).

### **Chapter-15: Biodiversity and Conservation Biodiversity**

- Concept, levels, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.

### **Chapter-16: Environmental Issues**

Air pollution and its control; water pollution and its control; agrochemicals and their effects; solid waste management; radioactive waste management; greenhouse effect and climate change impact and mitigation; ozone layer depletion; deforestation; case study exemplifying success story addressing environmental issue(s).

## **PRACTICALS**

**Time allowed: 3 Hours**

Evaluation scheme		Marks
One Major Experiment 5, 6, 8, 9,		5
One Minor Experiment 2, 3, 4		4
Slide Preparation 1, 7		5
Spotting		7
Practical Record + Viva Voce	Credit to the students' work over the academic session may be given	4
Investigatory Project and its Project and its Record + Viva Voce		5
Total		30

## **A. List of Experiments**

**60 Periods**

1. Prepare a temporary mount to observe pollen germination.
2. Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.
3. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism.
4. Study the presence of suspended particulate matter in air at two widely different sites.
5. Study the plant population density by quadrat method.
6. Study the plant population frequency by quadrat method.
7. Prepare a temporary mount of onion root tip to study mitosis.
8. Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch.
9. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

## **B. Careful observation of the following (Spotting):**

1. Flowers adapted to pollination by different agencies (wind, insects, birds).
2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
4. Meiosis in onion bud cell or grasshopper testis through permanent slides.
5. T.S. of blastula through permanent slides (Mammalian).
6. Mendelian inheritance using seeds of different colour/sizes of any plant.
7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, 10 ear lobes, widow's peak and colourblindness.
8. Controlled pollination - emasculation, tagging and bagging.
9. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images. Comment on symptoms of diseases that they cause.
10. Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations.
11. Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.

**BLUE PRINT**  
**FIRST TERMINAL EXAMINATION 2021-22**

		SECTION-A	SECTION-B	SECTION-C	SECTION-D	SECTION-E	
UNIT	TITLE	VSA (1 marks)	CASE BASED QUESTIONS	SA (2 marks)	LA-I (3 marks)	LA-II (5 marks)	OVERALL
<b>VI</b> <b>Reproduction</b>	<b>Reproduction in Organisms</b>	2	1				<b>28</b>
	<b>Sexual Reproduction in Flowering Plants</b>	1		1	1		
	<b>Human Reproduction</b>	1		1		1	
	<b>Reproductive Health</b>	2		1	1		
<b>VII</b> <b>Genetics and Evolution</b>	<b>Principles of Inheritance and Variation</b>	2	1	1		1	<b>32</b>
	<b>Molecular Basis of Inheritance</b>	2			1	1	
	<b>Evolution</b>	3		1	1		
<b>VIII</b> <b>Biology and Human Welfare</b>	<b>Human Health and Diseases</b>	1	1	1	1		<b>10</b>
	<b>TOTAL</b>	<b>14(14)=14</b>	<b>3(14)</b>	<b>6(2)=12</b>	<b>5(3)=15</b>	<b>3(5)=15</b>	<b>70</b>

Typology of Questions →		Section A VSA (1 marks)	Section B Case-based Questions	Section C SA (2 marks)	Section D LA-I (3 marks)	Section E LA-II (5 marks)	TOTAL	%
Competencies ↓								
Demonstrate Knowledge and Understanding	Remembering	4 (1) =4	.	1 (2) =2	1 (3) =3	1 (5) =5	14	20%
	Understanding	7 (1) =7	1 (5) =5	3 (2) =6	1 (3) =3		21	30%
Application of Knowledge / Concepts		1 (1) =1	1(5) = 5	2 (2) =4	2 (3) = 6	1 (5) = 5	21	30%
Formulate, Analyse, Evaluate and Create		2 (1) =2	1 (4) = 4		1 (3) = 3	1 (5) = 5	14	20%
Total		14(14) =14	3 (14)	6 (2) = 12	5 (3) = 15	3 (5) = 15	31 (70)	100

# DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F

Syllabus for 2021-22

CLASS: XII

SUBJECT: COMPUTER SCIENCE

Month	Unit	Topics
APRIL 2021	UNIT1 Computational Thinking and Programming - 2 (40 MARKS)	1.Revision of Python topics covered in Class XI. 2. Functions: types of function (built-in functions, functions defined in module,
MAY 2021	UNIT 1 Computational Thinking and Programming - 2	1.Function contd. user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) 2. Python libraries: creating python libraries
JUNE 2021	UNIT 1 Computational Thinking and Programming - 2	Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file
JULY 2021	UNIT 1 Computational Thinking and Programming -2  Unit III: Database Management (20 MARKS)	1.Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file 2. CSV file: import csv module, open / close csv file, write into a csv file using csv.writerow() and read from a csv file using csv.reader( )  3.Database concepts: introduction to database concepts and its need 4. Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key)

AUGUST 2021	Unit III: Database Management	Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural join
SEPTEMBER 2021	Unit III: Database Management	Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using fetchone(), fetchall(), rowcount, creating database connectivity applications REVISION <b>FIRST TERMINAL EXAMINATION</b>

OCTOBER 2021	UNIT 1 Computational Thinking and Programming -2	1.Recursion: simple programs with recursion: sum of first n natural numbers, factorial, fibonacci series 2. Idea of efficiency: number of comparisons in Best, Worst and Average case for linear search
NOVEMBER 2021	UNIT 1 Computational Thinking and Programming -2  Unit II: Computer Networks (10 MARKS)	1.Data Structure: Stack, operations on stack (push & pop), implementation of stack using list. Introduction to queue, operations on queue (enqueue, dequeue, is empty, peek, is full), implementation of queue using list.  2.Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address, switching techniques (Circuit switching, Packet switching)

DECEMBER 2021	Unit II: Computer Networks	1.Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) <ul style="list-style-type: none"> <li>• Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card)</li> <li>• Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree)</li> <li>• Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP, wireless/mobile communication protocol such as GSM, GPRS and WLL</li> <li>• Mobile telecommunication technologies: 1G, 2G, 3G, 4G and 5G</li> <li>• Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting</li> </ul> REVISION PREBOARD EXAMINATION
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#### BLUE PRINT OF QUESTION PAPER FOR FIRST TERMINAL EXMINATION

UNIT	VSA 1 MARKS	SA 2 MARKS	SA 3 MARKS	LA 4 MARKS	LA 5 MARKS	TOTAL
REVIEW OF STD XI	8	2				12
FUNCTIONS	3	2				7
PACKAGES		1	1			5
TEXT FILE		1	1			5
BINARY FILE		1			1	7
CSV FILE				1		4
DATA BASE CONCEPTS	2	2				6
SQL	2	1	1	1	2	21
INTRFACE OF PYTHON WITH MYSQL			1			3
	15 (1x15=15)	10 (2x10=20)	4 (3x4=12)	2 (4x2=8)	3 (5x3=15)	70



**SYLLABUS OF INFORMATICS PRACTICES (PYTHON) 2021-22 CLASS- XI**

SNO	CHAPTER NO.	NAME OF CHAPTER	MONTHS
1	1	BASIC COMPUTER ORGANIZATION	MAY
2	2	GETTING STARTED WITH PYTHON	JUNE
3	3	PYTHON FUNDAMENTALS	JULY
4	4	DATA HANDLING	AUGUST
5	5	CONDITIONAL AND ITERATIVE STATEMENTS	SEPTEMBER
<b>HALF YEARLY EXAM chapter 1,2,3,4,5</b>			
6	6	LIST MANIPULATION	SEPTEMBER
7	7	DICTIONARIES	OCTOBER
8	8	UNDERSTANDING DATA	
9	9	NUMPY	NOVEMBER
10	10	DATABASE CONCEPT	DECEMBER
11	11	STRUCTURED QUERY LANGUAGE (SQL)	JANUARY
12	12	EMERGING TRENDS	FEBRUARY

**1. Distribution of Marks and Periods**

Unit No	Unit Name	Marks	Periods Theory	Periods Practical	Total Period
1	Introduction to computer system	10	10	-	10
2	Introduction to Python	25	35	28	63
3	Database concepts and the Structured Query Language	30	23	17	40
4	Introduction to Emerging Trends	5	7	-	7
	Practical	30	-	-	-
	Total	100	75	45	120

SUBJECT: INFORMATICS PRACTICES (New)

Code: 065.

BLUE PRINT (HALF YEARLY)

SNO	CHAPTER NO.	NAME OF CHAPTER	MONTHS	WEIGHTAGE
1	1	BASIC COMPUTER ORGANIZATION	MAY	10
2	2	GETTING STARTED WITH PYTHON	JUNE	10
3	3	PYTHON FUNDAMENTALS	JULY	15
4	4	DATA HANDLING	AUGUST	15
5	5	CONDITIONAL AND ITERATIVE STATEMENTS	SEPTEMBER	20
6		PRACTICAL		30
		TOTAL		100

# DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F

Syllabus for 2021-22

## BIOTECHNOLOGY (Code No. 045)

CLASS XII (2021-22)

### COURSE- STRUCTURE- (THEORY)

<b>One Paper</b>	<b>Max. Marks 70+30</b>	<b>Time: 3 hrs</b>	
UNITS		MARKS	PERIODS
<b>Unit V</b>	<b>Protein and Gene Manipulation</b>	<b>40</b>	<b>100</b>
<b>Unit VI</b>	<b>Cell Culture and Genetic Manipulation</b>	<b>30</b>	<b>80</b>
	<b>Practicals</b>	<b>30</b>	<b>60</b>
	<b>Total</b>	<b>100</b>	<b>240</b>

One paper

Time: 3 hrs.

Total Marks: 70

### FIRST-TERM SYLLABUS (APRIL-AUGUST)

#### Unit-V Protein and Gene Manipulation

40 Marks

##### **Chapter-1: Recombinant DNA Technology**

Introduction, Tool of DNA technology, Making DNA, Introduction of recombinant DNA into host cells, Identification of recombinants, Polymerase Chain Reaction (PCR), Hybridization techniques, DNA library, DNA Sequencing, Site-directed Mutagenesis

##### **Chapter-2: Protein Structure and Engineering**

Introduction to the world of proteins, 3-D shape of proteins, Structure-function Relationship in proteins, Purification of proteins, Characterization of proteins, Protein based products, Designing proteins (Protein Engineering)

##### **Chapter-3: Genomics, Proteomics and Bioinformatics**

Introduction, Genome, Sequencing projects, Gene prediction and counting, Genome similarity, SNP and Comparative genomics, Functional genomics, Proteomics, History of bioinformatics, Sequences and nomenclature, Information sources, Analysis using bioinformatics tools.

BIOTECHNOLOGY (Code No. 045) 5

#### Unit-VI Cell Culture and Genetic Manipulation

30 Marks

##### **Chapter-1: Microbial Cell Culture and its Applications**

Introduction, Microbial nutrition and culture techniques, Measurement and kinetics of microbial growth, Scale-up of microbial process, Isolation of microbial products, Strain isolation and improvement, Applications of microbial culture technology, Biosafety issues in microbial technology

### **PRE - BOARD SYLLABUS(OCTOBER-NOVEMBER) (Pre – Board Syllabus also includes First-Term Syllabus)**

##### **Chapter -2: Plant Cell Culture and Applications**

Introduction, Cell and tissue culture techniques, Applications of cell and tissue culture, Gene transfer Methods in plants, Transgenic plants with beneficial traits, Biosafety of transgenic plants

##### **Chapter-3: Animal Cell Culture and Applications**

Introduction, Animal cell culture techniques, Characterization of cell lines, Methods of gene delivery into cells, Scale-up of animal culture process, Applications of animal cell culture, Stem cell technology, Tissue engineering

**BIOTECHNOLOGY (Code No. 045)**  
**BLUE PRINT**  
**FIRST TERMINAL EXAMINATION 2021-22**

UNIT	TOPIC	VSQ (1marks)	CASE BASED QUES..	SA (2marks)	LA-I (3marks)	LA-II (5marks)	OVERALL
<b>V Protein and Gene Manipulation</b>	<b>Recombinant DNA Technology</b>	2	1(4)	3	1	1	20
	<b>Protein Structure and Engineering</b>	2	1(4)	3	1	1	20
	<b>Genomics, Proteomics and Bioinformatics</b>	5		2	2		15
<b>VI Cell Culture and Genetic Manipulation</b>	<b>Microbial Cell Culture and its Applications</b>	5		1	1	1	15
	<b>TOTAL</b>	1(14)=14	2(8)=8	2(9)=18	3(5)=15	5(3)=15	70

**DAV PUBLICSCHOOLS, JHARKHAND ZONE – F**  
**SESSION 2021-2022**  
**CLASS XII**  
**SUBJECT – MATHEMATICS -241 [Commerce]**

Month	Chapter's Name	Topic
April	Number Qualifications And Numerical Applications	Modulo Arithmetic, Congruence Modulo, Simple Arithmetic Functions, Alligation and Mixture, Boats and Streams , Pipes and Cisterns, Races and Games, Partnership, Scheduling , Numerical Inequalities .
May	Algebra	Matrices and types of matrices, Equality of matrices, Transpose of a matrix, Symmetric and Skew symmetric matrix , Algebra of Matrices, Determinants, Inverse of a matrix, Solving system of simultaneous equations using matrix method, Cramer's rule and row reduction method Simple applications of matrices and determinants including Leontiff input output model for two variables.
June	Calculus	Higher Order Derivatives, Application of Derivatives, Marginal Cost and Marginal Revenue using derivatives, Increasing /Decreasing Functions , Maxima and Minima,
July	Integration and its Applications , Differential Equations and Modeling	Integration , Indefinite Integrals as family of curves, Definite Integrals as area under the curve, Application of integration. Differential Equations, Formulating and Solving Differential Equations, Application of Differential Equations
August	PROBABILITY DISTRIBUTIONS	Probability Distribution, Mathematical Expectation, Variance, Binomial Distribution, Poisson Distribution, Normal Distribution
September	<b>INFERENCE STATISTICS</b>	Population and Sample , Parameter and Statistics and Statistical Inferences, t-Test (one sample t-test and two independent groups t-test) .
October	<b>INDEX NUMBERS AND TIME BASED DATA, FINANCIAL MATHEMATICS</b>	Index Numbers, Construction of Index numbers, Test of adequacy of Index numbers, Time Series , Components of Time Series , Time Series analysis for univariate data, Secular Trend , Methods of Measuring trend .Perpetuity, Sinking Funds , Valuation of Bonds, Calculation of EMI , Calculation of Returns, Nominal Rate of Return, Compound Annual Growth Rate, Stock, Shares and Debentures , Linear method of Depreciation
November	<b>LINEAR PROGRAMMING</b>	Introduction and related terminology, Mathematical formulation of Linear, Programming Problem , Different types of Linear Programming Problems, Graphical method of

		solution for problems in two variables, Feasible and Infeasible Regions , Feasible and infeasible solutions, optimal feasible solution
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No.	Units	No. of Periods	Marks
I	Numbers, Quantification and Numerical Applications	30	09
II	Algebra	20	10
III	Calculus	50	15
IV	Probability Distributions	35	10
V	Inferential Statistics	10	05
VI	Index Numbers and Time-based data	30	10
VII	Financial Mathematics	50	15
VIII	Linear Programming	15	06
Total		240	80
Internal Assessment			20

**DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F**

Syllabus for SESSION 2021-2022

**SYLLABUS CUM BLUEPRINT****(STD- XII)(SA- 1 /2021-22**

S NO.	CHAPTERS	MARKS	1 mark	2 marks	3 marks	5 marks
1	NUMBER QUALIFICATIONS AND APPLICATIONS	13	6	2	1	****
2	MATRIX AND DETERMINANTS	13	5	1	1	1
3	SOLVING THE EQUATIONS	3	1	1	****	****
4	LINEAR INEQUALITY	6	1	1	1	****
5	APPLICATIONS OF DERIVATIVES	13	3	1	1	1
6	INTEGRATIONS	10	3	2	1	****
7	APPLICATIONS OF INTEGRATIONS	12	2	1	1	1
8	DIFFERENTIATE EQUATIONS	8	3	1	1	****
	TOTAL	80	24	20	21	15

**APPLIED MATHEMATICS (241)**

**DAV PUBLIC SCHOOLS, JHARKHAND ZONE-F**

**SESSION 2021-2022**

**Class XII Accountancy (055)**

UNIT	NAME	MONTH	SA 1	SA 2
<b>PART A</b>				
<b>1.</b>	<b>Financial Statements of Not-for-Profit Organisations</b>	<b>April</b>	<b>15</b>	<b>10</b>
<b>2.</b>	<b>Accounting for Partnership Firms</b> a. Fundamental and Valuation of Goodwill b. Change in Profit Sharing Ratio c. Admission of a Partner d. Retirement of a Partner e. Death of a Partner f. Dissolution of Partnership Firm	<b>May</b> <b>May</b> <b>June-July</b> <b>July</b> <b>July</b> <b>August</b>	<b>48</b>	<b>30</b>
<b>3.</b>	<b>Accounting for Companies</b> a. Accounting for Share capital (without pro-rata)	<b>August</b>	<b>17</b>	<b>20</b>
	<b>HALF YEARLY EXAMINATION (SEPTEMBER)</b>		----	
	b. Accounting for shares ( <b>continued.....</b> ) c. Accounting for debentures (Issue & Redemption)	<b>October</b> <b>October</b>		
<b>PART B</b>				
<b>4.</b>	<b>Analysis of Financial Statements</b> a. Financial statements of a company b. Financial statement analysis c. Financial tools d. Ratio Analysis	<b>November</b> <b>To</b> <b>December</b>	----	<b>12</b>
<b>5.</b>	Cash Flow Statement	<b>December</b>		<b>08</b>
<b>PART C</b>	<b>PROJECT WORK</b>		<b>20</b>	<b>20</b>
	<b>TOTAL</b>		<b>100</b>	<b>100</b>

**HALF YEARLY**

**BLUE PRINT- ACCOUNTANCY XII**

UNIT	TOPIC	(1 Mark)	(3marks)	(4marks)	(6marks)	(8marks)	Total
<b>1.</b>	<b>Financial Statement of NPO</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>---</b>	<b>15</b>
<b>2.</b>	<b>Accounting for Partnership Firm</b>	<b>13</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>48</b>
<b>3.</b>	<b>Accounting for Companies</b> a. Accounting for share capital	<b>5</b>		<b>1</b>	<b>---</b>	<b>1</b>	<b>17</b>
	<b>Total</b>	<b>1x20</b>	<b>3x2</b>	<b>4x5</b>	<b>6x3</b>	<b>8x2</b>	<b>80</b>

**ANNUAL EXAMINATION -BLUE PRINT- ACCOUNTANCY XII**

<b>UNIT</b>	<b>TOPIC</b>	<b>(1 Mark)</b>	<b>(3marks)</b>	<b>(4marks)</b>	<b>(6marks)</b>	<b>(8marks)</b>	<b>Total</b>
<b>1.</b>	<b>Financial Statement of NPO</b>	<b>1</b>	<b>1</b>		<b>1</b>	<b>---</b>	<b>10</b>
<b>2.</b>	<b>Accounting for Partnership Firm</b>	<b>10</b>		<b>3</b>		<b>1</b>	<b>30</b>
<b>3.</b>	<b>Accounting for Companies</b>	<b>2</b>		<b>1</b>	<b>1</b>	<b>1</b>	<b>20</b>
<b>4.</b>	<b>Analysis of Financial Statement</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>---</b>	<b>---</b>	<b>12</b>
<b>5.</b>	<b>Cash Flow Statement</b>	<b>2</b>	<b>---</b>	<b>---</b>	<b>1</b>	<b>---</b>	<b>08</b>
	<b>Total</b>	<b>1x20</b>	<b>3X2</b>	<b>4x5</b>	<b>6x3</b>	<b>8x2</b>	<b>80</b>



# DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F

SYLLABUS FOR THE SESSION -2021-22

CLASS XII BUSINESS STUDIES (Code No. 054)

Theory: 80 Marks

3 hours

Project: 20 Marks

Units	Chapter Name	Month	HY	ANNUAL
<b>PART A</b>	<b>PRINCIPLES AND FUNCTIONS OF MANGEMENT</b>			
1	Nature and Significance of Management	April	10	
2	Principles of Management	May	12	
3	Business Environment	June	10	16
4	Planning	July	10	
5	Organising	July- august	10	14
6	Staffing	August	10	
7	Directing	September	10	
8	Controlling	September- October	8	20
<b>PART B</b>	<b>BUSINESS FINANCE AND MARKETING</b>			
9	Financial Management	October		
10	Financial Markets	November		15
11	Marketing Management	November – December		
12	Consumer Protection	December		15
<b>PART C</b>	<b>PROJECT WORK</b>		20	20
	Total Marks		100	100

## BLUE PRINT XII th BUSINESS STUDIES(2021-22)

	CHAPTER NAME	1M	3M	4M	6M	TOTAL
1	Nature and Significance of Management	12	2	2	1	32
2	Principles of Management					
3	Business Environment					
4	Planning	4	2	1	1	20
5	Organising					
6	Staffing	4	-	3	2	28
7	Directing					
8	Controlling					
	TOTAL	20	4Q	6Q	4Q	80

MARK ANALYSIS			
MARKS	NO. OF QUESTION	TOT.(marks x no. Of question)	Optional/ Choice Question
1	20	20	2
3	4	12	2
4	6	24	2
6	4	24	2
	34	80	

Note -- Blue print is as per the CBSE Sample paper (2020-21)

# DAV PUBLIC SCHOOLS , JHARKHAND ZONE -F

Syllabus for 2021-22

Month-Wise Syllabus of Std – XII Session : 2021-22 Subject: Economics (30)

SUBJECT: ECONOMICS(030)

(2021-22)

Theory: 80 Marks

Project : 20 Marks

3 Hours

Units	Topics	Marks (SA1)	Marks Pre board
Month	Topics		
April	Part A: Unit 1: National Income Accounting ( Macro Economics)		
	Part B:Unit6:Development Experience (1947-90) & Economic Reforms since 1991		
May	Part A; Unit 1: Contd ( Macro Economics)		
	Part B; Unit 6: Contd(Indian Economic Development)		
June	Part A: Unit 2: Money & Banking ( Macro Economics)		
	Part B: Unit 7: Current Challenges facing Indian Economy: Poverty		
July	Part A: Unit 3:Determination of income & Employment		
	Part B :Unit 7: Current Challenges facing Indian Economy: Human Capital Formation		
August	Part A: Unit 3 : Determination of income & Employment		
	Part B: Unit7:Current Challenges facing Indian Economy: Rural Development		
September	Revision		
	Commencement of Summative Assessment 1		
October	Part A: Unit 4: Government Budget ( Macro Economics)		
	Part B: Unit 7:Current Challenges facing Indian Economy: Employment		
November	Part A: Balance Of Payment ( Macro Economics)		
	Part B: Unit 7: Current Challenges facing Indian Economy: Infrastructure & Sustainable Development		
December	Part A: Revision: Unit 1 & 3 ( Macro Economics)		
	Part B: Unit8: Development Experience of India : A Comparison with neighbours		
January	Part B: Revision: unit 6 & 7		
	Pre- Board		
Part A	Introductory Macro Economics		
Unit 1	National Income & Related Aggregates	15	10
Unit 2	Money & Banking	10	6
Unit 3	Determination of income & Employment	15	12
Unit 4	Govt Budget	NA	6
Unit 5	Balance of Payment	NA	6
Total		40	40
Part B	Indian Economic Development		
Unit 6	Development Experience (1947-90) & Economic Reforms since 1991	25	12
Unit 7	Current Challenges facing Indian Economy	15(Chapters included: Poverty, Human Capital Formation& Rural Development)	22
Unit 8	Development Experience of India-A comparison with neighbours	NA	12
Total		40	40
Part C	Project		
	One comprehensive project in two parts First Part of the project to be evaluated in SA1Examination Second Part of the project will be evaluated in Annual Examination	20	20
Grand Total		100	100

Blue Print Of Summative 1

Std : XII

SUBJECT: ECONOMICS(030)

(2021-22)

Theory: 80 Marks

Project : 20 Marks

3 Hours

Part A : Introductory Macro Economics

UNIT	CHAPTER	No. of Questions 1 mark	No. of Questions 3 marks	No. of Questions 4 mark	No. of Questions 6 mark	Total No. of Questions	Total Marks
1	National Income Accounting	5	-----	1	1	7	15
2	Money & Banking	-----	2	1	-----	3	10
3.	Theory of Income & Employment	5	-----	1	1	7	15
Total						17	40

Part B : Indian Economic Development

UNIT	CHAPTER	No. of Questions 1 mark	No. of Questions 3 marks	No. of Questions 4 mark	No. of Questions 6 mark	Total No. of Questions	Total Marks
6	Development Experience (1947-90) & Economic Reforms since 1991	8	1	2	1	12	25
7	Current Challenges facing Indian Economy(Chapters included: Poverty, Human Capital Formation& Rural Development)	2	1	1	1	5	15
	Total	5	-----	1	1	17	40

DAV PUBLIC SCHOOL,BISTUPUR,JAMSHEDPUR ZONE F

**Geography(Code No. 029)**

**(Session 2021 – 22 )**

**MONTH WISE SYLLABUS**

**CLASS- 12**

**PRESCRIBED BOOK-1- FUNDAMENTALS OF HUMAN GEOGRAPHY [NCERT]**

**BOOK-2 - INDIA-PEOPLE AND ECONOMY [NCERT]**

**PRACTICAL WORK IN GEOGRAPHY PART II [NCERT]**

S.NO	MONTH	BOOK 1	BOOK 2	PRACTICAL
1	APRIL	<b>UNIT-1</b> <b>CH-1 HUMAN GEOGRAPHY- NATURE AND SCOPE</b> Definition of Human Geography; Naturalization of Human and Humanization of Nature; Environment	<b>UNIT-I)</b> <b>CH-1 POPULATION: DISTRIBUTION, DENSITY AND GROWTH,AND COMPOSITION</b> Population: distribution, density and growth; composition of population - linguistic, religious; sex, rural-urban and occupational-regional variations in growth of population	
2	MAY	<b>UNIT- 2</b> <b>CH-2 THE WORLD POPULATION DISTRIBUTION ,DENSITY AND GROWTH</b> Population change-spatial patterns and structure; determinants of population change Population Composition - age-sex ratio; rural-urban composition  <b>CH-3 POPULATION COMPOSITION</b> Sex composition; age structure; age pyramid; rural urban composition; literacy; occupational structure Chapter - 4: Human Development (Unit - I	<b>CH-2 MIGRATION: TYPES, CAUSES, AND CONSEQUENCES</b> Migration: international, national-causes and consequences	
3	JUNE	<b>CH-4 HUMAN DEVELOPMENT</b> Growth and development; the four pillars of human development; approaches of human development; measuring human development; International comparisons C	<b>CH-3 HUMAN DEVELOPMENT</b> Human development: selected indicators and regional patterns	

4	JULY	<b>UNIT- 3</b> <b>CH-5 PRIMARY ACTIVITIES</b> Primary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries <b>CH-6 SECONDARY ACTIVITIES</b> -concept; manufacturing: types - household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries,	<b>(UNIT II)</b> <b>CH-4-HUMAN SETTLEMENTS</b> Rural settlements - types and distribution Urban settlements - types, distribution and functional classification <b>CH-5 LAND RESOURCES AND AGRICULTURE</b> Land resources- general land use; agricultural land use; geographical conditions and distribution of major crops (Wheat, Rice, Tea, Coffee, Cotton, Jute, Sugarcane and Rubber); agricultural development and problems	Type and Sources of data: Primary, Secondary and other sources
5	AUGUST	<b>CH-7 TERTIARY AND QUATERNARY ACTIVITIES</b> Tertiary activities-concept; trade, transport and tourism; services; people engaged in tertiary activities - some examples from selected countries	<b>(UNIT-III)</b> <b>CH-6 WATER RESOURCES</b> Water resources-availability and utilization-irrigation, domestic, industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management <b>CH-7 MINERALS AND ENERGY RESOURCES</b> Mineral and energy resources-distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non-conventional energy sources (solar, wind, biogas) and conservation	Tabulating and processing of data; calculation of averages, measures of central tendency
6	SEPTEMBER	<b>REVISION MAPS AND DIAGRAMS PRACTICALS</b>	SA1	SA1
7	OCTOBER	<b>UNIT- 3</b> <b>CH-8 TRANSPORT AND COMMUNICATION</b> Land transport - roads, railways; trans-continental railways Water transport-inland waterways; major ocean routes Air transport-Intercontinental air routes Oil	<b>CH-8 MANUFACTURING INDUSTRIES</b> Industries - types, factors of industrial location; distribution and changing pattern of selected industries-iron and steel, cotton textiles, sugar, petrochemicals, and knowledge based industries; impact	Representation of data- construction of diagrams: bars, circles and flowchart

		and gas pipelines Satellite communication and cyber space- importance	of liberalization, privatization and globalization on industrial location; industrial clusters  <b>CH-9 PLANNING AND SUSTAINBLE DEVELOPMENT IN INDIAN CONTEXT</b> Planning in India- target group area planning (case study); idea of sustainable development (case study)	
8	NOVEMBER	<b>UNIT-4</b> <b>CH-9 INTERNATIONAL TRADE</b> bases and changing patterns; ports as gateways of international trade; role of WTO in international trad	<b>CH-10 TRANSPORT AND COMMUNICATION</b> Transport and communication-roads, railways, waterways, and airways: oil and gas pipelines; Geographical information and communication net works <b>CH-11 INTERNATIONAL TRADE</b> International trade- changing pattern of India's foreign trade; sea ports and their hinterland and airports	Thematic maps; construction of dot; choropleth and isopleths maps, Data analysis and generation of diagrams, graphs and other visual diagrams using computers
9	DECEMBER	<b>CH-10 HUMAN SETTLEMENTS</b> Settlement types - rural and urban; morphology of cities (case study); distribution of mega cities; problems of human settlements in developing countries	<b>CH-12-GEOGRAPHICAL PERSPECTIVE ON SELECTED ISSUES AND PROBLEMS</b>  Environmental pollution; urban-waste disposal Urbanization, rural-urban migration; problems of slums Land degradation	REVISION
10	JANUARY	<b>REVISION AND PRE BOARD</b>	<b>REVISION AND PRE BOARD</b>	<b>REVISION AND PRE BOARD</b>
11	FEBRUARY	<b>EXAMINATION CONTINUES</b>	<b>EXAMINATION CONTINUES</b>	<b>EXAMINATION CONTINUES</b>

### Weightage to form of questions:

Type of Questions	LA(5MARKS)	SA(3MARKS)	OBJECTIVE(1 MARK)	MAP WORK (5 MARKS)	TOTAL
NO OF QUESTIONS	6	4	18	2	30
MARKS	30	12	18	10	70

Part	Units	Marks
<b>A</b>	<b>Fundamentals of Human Geography</b>	<b>35 Marks</b>
	<b>Unit 1: Human Geography</b>	<b>30</b>
	<b>Unit 2: People</b>	
	<b>Unit 3: Human Activities</b>	
	<b>Unit 4: Transport, Communication and Trade</b>	
	<b>Unit 5: Human settlements</b>	
	<b>Map Work</b>	<b>5</b>

<b>B</b>	<b>India: People and Economy</b>	<b>35 Marks</b>
	<b>Unit 6: People</b>	<b>30</b>
	<b>Unit 7: Human Settlements</b>	
	<b>Unit 8: Resources and Development</b>	
	<b>Unit 9: Transport, Communication and International Trade</b>	
	<b>Unit 10: Geographical Perspective on selected issues and problems</b>	
	<b>Map Work</b>	<b>5</b>
<b>C</b>	<b>Practical Work in Geography Part II</b>	<b>30 Marks</b>
	<b>Unit 1: Processing of Data and Thematic Mapping</b>	<b>15</b>
	<b>Unit 2: Field study or Spatial Information Technology</b>	<b>10</b>
	<b>Practical Record Book and Viva Voce</b>	<b>5</b>

**DAV PUBLIC SCHOOLS, JHARKHAND ZONE-F**  
**MONTHLY SYLLABUS 2021-22**  
**SOCIAL SCIENCE**  
**CLASS- XII**

**HISTORY XII : THEMES IN INDIANS HISTORY**

S.N.	MONTH	UNIT/CHAPTER/CONTENT
1	APRIL	<p><b>PART-I - CHAPTER 1 : BRICKS, BEADS AND BONES</b></p> <p>THE STORY OF THE FIRST CITIES: Harappan Archaeology Broad overview: Early urban centers Story of discovery: Harappan civilization Excerpt: Archaeological report on a major site Discussion: How it has been utilized by archaeologists/historians</p> <p><b>PART-1- CHAPTER 2 : KINGS, FARMERS AND TOWNS</b></p> <p>Political and Economic History: How Inscriptions tell a story. Broad overview: Political and economic History from the Mauryan to the Gupta period Story of discovery: Inscriptions and the Decipherment of the script. Shifts in the Understanding of political and economic history. Excerpt: Ashokan inscription and Gupta period land grant Discussion: Interpretation of inscriptions by historians.</p>
2	MAY	<p><b>PART-1- CHAPTER 3 : KINSHIP, CASTE AND CLASS</b></p> <p>Social Histories: Using the Mahabharata Broad overview: Issues in social history, including caste, class, kinship and gender Story of discovery: Transmission and publications of the Mahabharata Excerpt: from the Mahabharata, illustrating how it has been used by historians. Discussion: Other sources for reconstructing social history</p> <p><b>PART-1-CHAPTER 4 : THINKERS, BELIEFS AND BUILDINGS</b> A History of Buddhism: Sanchi Stupa Broad overview: a) A brief review of religious histories of Vedic religion, Jainism, Vaishnavism, Shaivism (Puranic Hinduism) b) Focus on Buddhism. Story of discovery: Sanchi stupa. Excerpt: Reproduction of sculptures from Sanchi. Discussion: Ways in which sculpture has been interpreted by historians, other sources for reconstructing the history of Buddhism.</p>
3	JUNE	<p><b>Part-II CHAPTER 5 : THROUGH THE EYES OF TRAVELLERS</b></p> <p>Medieval Society through Travellers' Accounts Broad Overview: outlines of social and cultural life as they appear in traveller's account. Story of their writings: A discussion of where they travelled, what they wrote and for whom they wrote. Excerpts: from Al Biruni, Ibn Battuta, Francois Bernier. Discussion: What these travel accounts can tell us and how they have been interpreted by historians.</p> <p><b>PART-II- CHAPTER 6 : BHAKTI- SUFI TRADITIONS</b></p> <p>Religious Histories: The Bhakti-Sufi Tradition Broad overview: a. Outline of religious developments during this period saints. b. Ideas and practices of the Bhakti-Sufi Story of Transmission: How Bhakti-Sufi compositions have been preserved. Excerpt: Extracts from selected Bhakti-Sufi works. Discussion: Ways in which these have been interpreted by historians.</p>



4	JULY	<p><b>PART-II – CHAPTER 7 : AN IMPERIAL CAPITAL VIJAYANAGARA</b>New Architecture: Hampi broad over view: a. Outline of new buildings during Vijayanagar period- temples, forts, irrigation facilities. b. Relationship between architecture and the political system Story of Discovery: Account of how Hampi was found. Excerpt: Visuals of buildings at Hampi Discussion: Ways in which historians have analyzed and interpreted these structures.</p> <p><b>PART-II-CHAPTER 8 : PEASANTS, ZAMINDARS AND THE STATE</b></p> <p>Agrarian Relations: The Ain-I Akbari Broad overview: a. Structure of agrarian relations in the 16th and 17th centuries. Patterns of change over the period. Story of Discovery: Account of the compilation and translation of Ain I Akbari Excerpt: from the Ain-I Akbari. Discussion: Ways in which historians have used texts to reconstruct history.</p>
5	AUGUST	<p><b>PART-II-CHAPTER 9 : KINGS AND CHRONICLES</b></p> <p>The Mughal Court: Reconstructing Histories through Chronicles Broad overview: a. Outline of political history 15th -17th centuries Discussion of the Mughal court and politics. Story of Discovery: Account of the production of court chronicles, and their subsequent translation and transmission. Excerpts: from the Akbarnama and Badshahnama Discussion: Ways in which historians have used the text store construct political histories.</p> <p><b>PART-III - CHAPTER 10 : COLONIALISM AND THE COUNTRYSIDE</b></p> <p>Colonialism and Rural Society: Evidence from Official Reports Broad overview: a. Life of zamindars, peasants and artisans in the late 18th century b. East India Company, revenue settlements in various regions of India and surveys Changes over the nineteenth century Story of official records: An account of why official investigations into rural societies were under taken and the types of records and reports produced. Excerpts: From Fifth Report, Accounts of Frances Buchanan - Hamilton, and Deccan Riots Report. Discussion: What the official records tell and do not tell, and how they have been used by historians.</p>
6	SEPTEMBER	<b>HALF YEARLY EXAMINATION</b>
<b>PORTION OF HALF YEARLY EXAMINATION – CONTENTS COVERED UP TO AUGUST</b>		
7	OCTOBER	<p><b>PART-III-CHAPTER 11: REBELS AND THE RAJ</b></p> <p>Representations of 1857 Broad overview: a. The events of 1857-58. b. Vision of Unity c. How these events were recorded and narrated</p> <p><b>Focus:</b> Lucknow Excerpts: Pictures of 1857. Extracts from contemporary accounts. Discussion: How the pictures of 1857 shaped British opinion of what had happened.</p> <p><b>PART-III-CHAPTER 12: COLONIAL CITIES</b></p> <p>Colonialism and Indian Towns: Town Plans and Municipal Reports Broad overview: History of towns in India, colonization and cities, hill stations, town planning of Madras, Calcutta and Bombay. Excerpts: Photographs and paintings. Plans of cities. Extract from town plan reports. Focus on Calcutta town planning Discussion: How the above sources can be used to reconstruct the history of</p>

		towns. What these sources do not reveal.
<b>8</b>	<b>NOVEMBER</b>	<b>PART-III- CHAPTER 13: MAHATMA GANDHI AND NATIONAL MOVEMENTS</b> Mahatma Gandhi through Contemporary Eyes Broad overview: a. The Nationalist Movement 1918 -48. b. The nature of Gandhian politics and leadership. Focus: Mahatma Gandhi and the three movements and his last days as “finest hours” Excerpts: Reports from English and Indian language newspapers and other contemporary writings. Discussion: How newspapers can be a source of history <b>PART-III -CHAPTER 14: UNDERSTANDING PARTITION</b> Partition through Oral Sources Broad overview: a. The history of the 1940s. b. Nationalism, Communalism and Partition. Focus: Punjab and Bengal Excerpts: Oral testimonies of those who experienced partition Discussion: Ways in which these have been analyzed to reconstruct the history of the event
<b>9</b>	<b>DECEMBER</b>	<b>PART-III -CHAPTER 15: FRAMING THE CONSTITUTION</b> The Making of the Constitution an overview: a. Independence and then new nation state. b. The making of the Constitution Focus: The Constituent Assembly Debates Excerpts: from the debates. Discussion: What such debates reveal and how they can be analyzed. <b>REVISION</b>
<b>10</b>	<b>JANUARY</b>	<b>PRE BOARD</b>
<b>11</b>	<b>FEBRUARY</b>	<b>REVISION</b>
<b>12</b>	<b>MARCH</b>	<b>BOARD EXAM</b>

<b>HISTORY– CLASS XII SUBJECT CODE 027</b> <b>(Session 2021-22) TIME: 3 Hours Maximum Marks: 80</b>			
<b>S.NO</b>	<b>COMPETENCIES</b>	<b>MARKS</b>	<b>%WEITAGE</b>
<b>1.</b>	<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers. <b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions and stating main ideas	<b>40</b>	<b>50%</b>
<b>2.</b>	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way	<b>15</b>	<b>18.75%</b>
<b>3.</b>	<b>High Order Thinking Skills-</b> (Analysis & Synthesis) Classify, Apply, solve, compare, contrast, or differentiate between different pieces of information; Organize and/or integrate unique pieces of information from a variety of sources) <b>Evaluation-</b> (Appraise, Argue, judge, support, critique, and/or justify the value or worth of a decision or outcome, or to predict outcomes)	<b>20</b>	<b>25%</b>
<b>4.</b>	<b>Map skill-based question-</b> Identification, location, significance	<b>5</b>	<b>6.25%</b>
	<b>TOTAL MARKS AND WEITAGE</b>	<b>80</b>	<b>100%</b>
<b>1) This question paper comprises of six sections. Some questions have an internal choice 2) Section A: Question</b>			

numbers 1 to 16 are objective type questions carrying 1 mark and should be answered in one word or one sentence each (**Only 15 will be attempted**)**3) Section B:** Question numbers 17 to 19 are Case Based/ Source Based having Multiple Choice questions. Each question has 4 sub-parts. Attempt any three sub-parts from each question.

**4) Section C:** Answer to questions carrying 3 marks (Question 20 to 23) should not exceed 100 words each.

**5) Section D:** Answer to questions carrying 8 marks (Question 24 to 26) should not exceed 350 words each.

**6) Section E:** Question number 27 to 29 are Source-based questions carrying 5 marks each.

**7) Section F:** Question number 30 is a Map question that includes the identification and location of significant test items.

<b>PROJECT WORK</b> <b>CLASS - XII (2021-22)</b> <b>ASSESSMENT Allocation of Marks (20)</b> <b>The marks will be allocated under the following heads:</b>		
S.NO	CRITERIA	MARKS
1	Project Synopsis	2 Marks
2	Data/Statistical analysis/Map work	3 Marks
3	Visual/overall presentation	5 Marks
4	Analysis/explanation and interpretation	5 Marks
5	Bibliography	1 Marks
6	Viva	4 Marks
	TOTAL	20 Marks

### FEW SUGGESTIVE TOPICS FOR PROJECTS

1. The mysteries behind the mound of dead –Mohenjo-Daro
2. An In-depth study to understand Spiritual Archaeology in the Sub-Continent
3. Buddha's Path to Enlightenment
4. Insight and Reflection of Bernier's notions of The Mughal Empire
5. An exploratory study to know the women who created history
6. "Mahatma Gandhi" – A legendary soul
7. To reconstruct the History of Vijayanagar through the Archaeology of Hampi
8. The emerald city of Colonial Era –BOMBAY
9. Vision of unity behind the first war of Independence
10. Divine Apostle of Guru Nanak Dev
11. Help, Humanity and Sacrifices during Partition
12. Glimpses inside Mughals Imperials Household
13. The process behind the framing of the Indian Constitution
14. The 'BrahmNirupam' of Kabir – A journey to Ultimate Reality

**DAV Public Schools , Jharkhand Zone -F**  
**Syllabus for class XII Political Science 2021-22**

<b>Month.</b>	<b>Chapter.</b>	<b>Marks</b>
<b>April</b>	1.Cold War Era and Non-Alignment.	6
	2. Challenges of Nation-Building.	6
<b>May.</b>	1.The End of Bipolarity.	6
	2.Planning and Development.	6
<b>June.</b>	1.India's Foreign Policy.	6
<b>July.</b>	1.New Centres of Powers.	6
	2.Parties and the Party Systems in India	5
<b>August</b>	1.South Asia and the	6
	2.Contemporary World Democratic Resurgence.	5
<b>September</b>	1.United Nations and its Organisations.	4
<b>October</b>	1.Social and New Social Movements in India.	6
	2.Security in the Contemporary World.	4
<b>November.</b>	1.Environment and Natural Resources	4
	2.Regional Aspirations.	6
<b>December.</b>	1.Globalisation.	4
	2.Indian Politics: Trends And Developments.	6
<b>Blue Print of the question paper.</b>		
<b>Question.</b>	<b>Marks.</b>	<b>Total marks</b>
1 to 16	1 mark each.	16
17&18	1+1+1+1=4	4
(Passages )	1+1+1+1=4.	4
19 to 22.	2 marks each	8
23 to 27.	4 marks each.	20
28 &29.	5 marks each	10
30 to 32	6 marks each.	18

DAV PUBLIC SCHOOL, BISTUPUR, JAMSHEDPUR  
MONTHLY SYLLABUS FOR THE SESSION 2021-22

CLASS – XII

SUBJECT - PHYSICS

MONTH	UNIT/CHAPTER	PORTION TO BE COVERED
APRIL	UNIT- I/CHAPTER- 1 UNIT –I/CHAPTER -2	ELECTRIC CHARGES AND FIELDS ELECTROSTATIC POTENTIAL AND POTENTIAL ENERGY
MAY	UNIT-I/CHAPTER – 2 UNIT-II/CHAPTER - 3	CAPACITANCE CURRENT ELECTRICITY
JUNE	UNIT – III/CHAPTER – 4 UNIT – III/CHAPTER -5	MOVING CHARGES AND MAGNETISM MAGNETISM AND MATTER
JULY	UNIT – IV/CHAPTER –6 UNIT – IV/CHAPTER - 7	ELECTROMAGNETIC INDUCTION ALTERNATING CURRENT
AUGUST	UNIT – V/CHAPTER – 8 UNIT – VI/CHAPTER -9	ELECTROMAGNETIC WAVES RAY OPTICS AND OPTICAL INSTRUMENTS
SEPTEMBER	<b>REVISION 1ST TERMINAL</b>	
OCTOBER	UNIT-VI/CHAPTER - 10 UNIT- VII/CHAPTER - 11	WAVE OPTICS DUAL NATURE OF RADIATION AND MATTER
NOVEMBER	UNIT VIII /CHAPTER – 12&13 UNIT IX / CHAPTER - 14	ATOMS AND NUCLEI ELECTRONIC DEVICES

**BLUE PRINT OF QUESTION PAPER - 2021-22**

**EXAMINATION – FIRST TERMINAL**

**CLASS – XII**

**SUBJECT – PHYSICS**

UNIT	1 MARK	2 MARKS	3MARKS	4 MARKS	5 MARKS	TOTAL
1. ELECTROSTATICS	4	2	-	-	1	13
2.CURRENT ELECTRICITY	2	2	2	-	-	12
3.MAGNETIC EFFECT OF CURRENT & MAGNETISM	2	1	-	1	1	13
4.ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENT	2	2	2	-	-	12
5.ELECTROMAGNETIC WAVES	-	1	1	-	-	05
6. RAY OPTICS	4	1	-	1	1	15
TOTAL MARKS	14	18	15	8	15	70