പൊതുപരീക്ഷ കൂടുതൽ ശ്രദ്ധ നൽകേണ്ട പാഠഭാഗങ്ങൾ

സ്റ്റാൻഡേർഡ് XII



കേരളസർക്കാർ പൊതുവിദ്യാഭ്യാസവകുപ്പ്

തയാറാക്കിയത്

സംസ്ഥാന വിദ്യാഭ്യാസ ഗവേഷണ പരിശീലന സമിതി (SCERT), കേരളം 2022

C392016

കോവിഡ് മഹാമാരി കാരണം നമ്മുടെ വിദ്യാർത്ഥികൾക്ക് സ്വാഭാവിക സ്കൂൾ അനുഭവങ്ങളും ക്ലാസ്സ്മുറിപഠനവും ഈ വർഷവും പൂർണമായും സാധ്യമായിട്ടില്ല. വീഡിയോ ക്ലാസ്സുകളിലൂടെയാണ് നവംബർ വരെ പാഠങ്ങൾ പരിചയപ്പെട്ടിരുന്നത്. നവംബർ മുതൽ വിദ്യാർത്ഥികൾ സ്കൂളി ലെത്തി നേരിട്ടുള്ള അധ്യയനം നടത്തുന്നുവെങ്കിലും ആഴ്ചയിൽ പകുതി ദിവസവും ഓരോ ദിവസവും പകുതി അധ്യയന സമയവും മാത്രമേ ലഭ്യ മാകുന്നുള്ളൂ. ഈ സാഹചര്യം പരിഗണിച്ച് ആത്മവിശ്വാസത്തോടെ പരീക്ഷ എഴുതാൻ നമുക്ക് അവരെ സജ്ജരാക്കേണ്ടതുണ്ട്. വ്യത്യസ്ത നിലവാരത്തിലുള്ള വിദ്യാർത്ഥികളെ അവരുടെ സാധ്യതകൾക്കനുസരിച്ച് നമുക്ക് സഹായിക്കേണ്ടതുണ്ട്.

കുട്ടികളുടെ അഭിരുചി മേഖലകൾ ഭിന്നമായതിനാൽ അവയെല്ലാം ഉൾക്കൊള്ളുന്നതിനായി പാഠഭാഗങ്ങൾ ഒന്നുംതന്നെ ഒഴിവാക്കേണ്ടതില്ല എന്നാണ് തീരുമാനിച്ചിട്ടുള്ളത്. എന്നിരുന്നാലും ക്ലാസ്സ്റും ചർച്ചയ്ക്കും വിശകലനത്തിനുമായി കൂടുതൽ ശ്രദ്ധ നല്കേണ്ട പാഠഭാഗങ്ങളാണ് ഇതോടൊപ്പമുള്ളത്. ഈ പാഠഭാഗങ്ങൾ അർഥപൂർണ്ണമായി സ്വാംശീക രിക്കുന്നതിന് ആവശ്യമായ പഠനപ്രവർത്തനങ്ങളും പഠനപിന്തുണയും നൽകാൻ അധ്യാപകർ പ്രത്യേകം ശ്രദ്ധിക്കേണ്ടതാണ്. ഇങ്ങനെ ചെയ്യു മ്പോൾ മറ്റ് പാഠഭാഗങ്ങളുമായി ബന്ധപ്പെട്ട് ഉയർന്നുവരുന്ന സംശയ ങ്ങൾക്ക് അതത് സമയം തന്നെ അധ്യാപകർ നിവാരണം വരുത്തേണ്ടതാണ്. വീഡിയോ ക്ലാസ്സിലൂടെയും സ്വയം പഠനത്തിലൂടെയും എത്രമാത്രമാണ് ആശയഗ്രഹണം നടന്നത് എന്ന് വിലയിരുത്തിയാകണം പഠനപ്രവർത്തനങ്ങൾ ആസൂത്രണം ചെയ്യേണ്ടത്.

ഡയറക്ടർ എസ്.സി.ഇ.ആർ.ടി

കൂടുതൽ ശ്രദ്ധിക്കേണ്ട മേഖലകൾ വിഷയാടിസ്ഥാനത്തിൽ

ഹയർ സെക്കണ്ടറി മലയാളം

നമ്പർ	യൂണിറ്റ്	പാഠങ്ങൾ
1	എഴുത്തകാ	പ്രവേശകം
		1. കണ്ണാടി കാൺമോളവും
		2. പ്രകാശം ജലം പോലെയാണ്
		3. കിരാതവൃത്തം
		4. അവകാശങ്ങളുടെ പ്രശ്നം
2	തനതിടം	കാക്കാരശ്ശിപ്പാട്ട്
		1. കേശിനീമൊഴി
		2. അഗ്നിവർണ്ണന്റെ കാലുകൾ
		3. പദത്തിന്റെ പഥത്തിൽ
		4. മാപ്പിളപ്പാട്ടിലെ കേരളീയത
3	ദർപ്പണം	1. കൊള്ളിവാക്കല്ലാതൊന്നും
		2. ഗൗളിജന്മം

ഹയർ സെക്കണ്ടറി മലയാളം (ഐച്ഛികം)

യൂണിറ്റ്	ക്രമ നമ്പർ	പാഠങ്ങൾ
I	1	വിഭീഷണഹിതോപദേശം
കാവൃപർവം	2	മുത്തുമണികൾ
	3	ശാന്തം കരുണം
	4	മലയാളഗദൃപരിണാമം
П	1	മധുരിക്കും ഓർമ്മകൾ
രംഗപർവം	2	ഒരു കൂട്ടം ഉറുമ്പുകൾ
	3	ഊരുഭംഗം
	4	തനതു നാടകവേദി
III ആഖ്യാനപർവം)].<u>\$</u>0.0	കാലം മാറുന്നു കാട് വിളിക്കുന്നു

ENGLISH

Lesson	Focus Area	
1)	The 3Ls of Empowerment [Speech]	
2)	Any Woman [Poem]	
3)	Matchbox [Story]	
4)	Horegallu [Anecdote]	
5)	Mending Wall [Poem]	
6)	The Hour of Truth [One Act Play]	
7)	A Three Wheeled Revolution [Interview]	
8)	Rice [Poem]	
9)	Dangers of Drug Abuse [Essay]	

XII

HINDI (SECOND LANGUAGE)

യുണിറ്റ്	പാഠം
इकाई 1	1. मातृभूमि 2. बेटी के नाम 3. मेरे भारतवासियो
इकाई 2	4. सूरीनाम में पहला दिन 5. मेरे लाल 6. दोस्ती
इकाई 3	7. ज़मीन एक स्लेट का नाम है। 8. सपने का भी हक नहीं 9. मुरकी उर्फ़ बुलाकी

HINDI (OPTIONAL)

യുണിറ്റ്	പാ0ം
इकाई 1	1. अलबम
	2. सरोज-स्मृति
	3. खोई हुई वस्तु की खोज
	4. क्रिया विशेषण (व्याकरण)
	5. साहित्य का इतिहास
इकाई 2	6. राजभाषा और राष्ट्रभाषा
	7. अनुवाद : कला और कौशल
	8. साँप
	9. संबंध बोधक (व्याकरण)
U n	10. साहित्य का इतिहास
ि इकाई 300.00.(30 (1) एक अंतरंग परिचया 20

ARABIC

(Second Language)

١. خير الله	
 عبقري من أبناء كيرالا 	الوحدة الأولى
٣. كيرالا ونعم الله التي لا تحصى	
١. ناموا ولا تستيقظوا	
٢. شرطي المرور	الوحدة الثانية
٣. كيمياء السعادة	
١. لغة الضاد	الوحدة الثالثة
٣ . لآلئ لغوية	

ARABIC (OPTIONAL)

Title	Chapter	Unit
لست ابني، أنا لا أعرفك	I	I
أنا لغة الضاد	II	I
زوجة بتفاحة	III	I
الانتظار	IV	I
الأخوة الإنسانية	III	II
هموم دارس	IV	II

روعة لغة القرآن الكريم و الحديث الشريف	I	III
من يعرفه الحل و الحرم	III	III
ندوة أدبية	IV	Ш
في مكتب السفريات	I	IV
المتردد	v	IV
حضارة الهند و ثقافتها	I	V
ابني بنى لنا بيتا في الجنة	Ш	V

Sanskrit-Second Language

	एककम्		पाठस्य नाम
I	आर्द्रता	१.	तव विरहे।
		₹.	व्रज हरितम्।
		₩.	भविष्ये तव।
II	मानविकता	٧.	चिन्तारतो बालकः ।
		ц.	को हेतुः?
		κ.	को हेतुः? दीनदयालुर्भव।
III	चारुता	9.	कालातिवर्तिनी कला ।

Sanskrit- Optional - Sahithya

	एककम्		पाठस्य नाम
I	आशीर्वादः	१.	विचित्ररूपोऽनुग्रहः।
		٦.	सन्तानगोपालम्
		æ •	बृहत्त्रयी।
II	विवेकिता	१.	ज्ञानोदयः।
		₹.	मृच्छकटिकम्।
III	स्वतन्त्रता	१.	महितामृतम्।

Sanskrit- Optional - Sasthra

	एककम्		पाठस्य नाम
I.	व्याकरणशास्त्रम्	१.	अजन्तपुल्लिङ्गप्रकरणम्।
		₹.	केवलसमासः।
		∌ .	अव्ययोभावसमासः।
		٧.	तत्पुरुषसमासः <i>(संख्यात्पूर्वो द्विगुः इति</i> <i>सूत्रपर्याप्तं भागः)</i> ।
II.	तर्कशास्त्रम्	१.	तर्कसङ्ग्रहदीपिका (<i>अनुबन्धचतुष्टयम्,</i> <i>मंगलवादः, तमोवादः च</i>)।
	दर्शनपरिचयः। ज्योतिशास्त्रम्।	~ ```	कतिपयाः केरलीयदार्शनिकाः। ज्योतिषामयनं चक्षुः (<i>आरम्भदारभ्य सूर्याद्याः</i> नवग्रहाः इति पर्यन्तं पाठभागः)।

PART - II - TAMIL (SECOND LANGUAGE)

Sl.No	அலகு	பாடப்பகுதி
1	வயலும் வாழ்வும்	• ஏறுபூட்டி • நம்ம நிலம் • பசும் பூமி
2	கலையும் பண்பாடும்	• நாட்டார் பண்பாடு
3	அறிவியல் தமிழ்	பழந்தமிழ்இளந்தமிழ்
4	என்றும் நலமுடன்	 நலம் நாடி சுவரிருந்தால்
5	சமூகச் சீர்திருத்தம்	• எழுச்சி

PART - III - TAMIL (OPTIONAL)

Sl.No	அலகு	கருத்தலகு
1	இயற்கையும் சுற்றுச்சூழலும்	அழகே ஆனந்தம்சிதைந்த ஓவியம்வருமுன்
2	வேர்வைத்துளிகள்	● இன்றுவரை
3	மனிதகுல மேம்பாடு	அன்பின் விதைகள்சமதர்மச் சிந்தனைகள்
4	மொழியும் சமூகமும்	 மொழி வளர்ச்சி மொழிப் பற்று
J imi	அறிவின் வாயில்கள்	• வலைப்பூக்கள்

PART - II - KANNADA (SECOND LANGUAGE)

SL. NO	UNIT	LESSON
1.	I. ಸಿರಿ ಬೆಳಸು	* ಕೆರೆಯ ದಡದಲ್ಲಿ
		* ಅವರವರ ದಾರಿ
2.	II. ನವಪಲ್ಲವ	* ಅಪ್ಪನೂ ಒಲೆಯುರಿಯೂ
		* ತಾ ಯಿ
3.	III. ಸಂಸ್ಕೃತಿ ಸುಮ	* ನಡೆವುದೊಂದೇ ಭೂಮಿ
		* ಸುಬ್ಬಣ್ಣ
4.	IV. ಬೆಳ್ಳಿತೆರೆ	* ಆಗದು ಎಂದು
5.	V. ನುಡಿಸಿರಿ	* ಸಕ್ಕರೆಗುಪ್ಪಂ ಸರಿಮಾಳ್ಯರೇ
		* ತರುಣಸೂರ್ಯಂ ಕತ್ತಲೆಯನೆ
		ಪೊಕ್ಕಂತಾಯ್ತು

PART - III - KANNADA (OPTIONAL)

		1
SL. NO	UNIT	LESSON
1.	I. ಹಳೆಗನ್ನಡ ನುಡಿಬೆಡಗು	* ಸಲಿಸುವೆಂ ನೂರುವರಂ
2.	II. ನಡುಗನ್ನಡ ಕಾವ್ಯ ಸೌರಭ	* ಧರೆಮೆಚ್ಚದಣ್ಣ ಸೋದರರ ಕಾಳಗಕೆ * ಉಲ್ಲಂಘಿಸುವರುಂಟೆ ವಿಧಿಕೃತವನು
3.	III. ಹೊಸಗನ್ನಡ ಗದ್ಯವಿಹಾರ	* ಕಾಡಿಗೆ ಹೊದ್ದಿಸಿದ ಮಂಜಿನನ ಪರದೆ * ಪ್ರಾಚೀನ ತುಳು ಸಾಹಿತ್ಯ
4.	VI. ನಾಟಕರಂಗ	* ಮಂಥರಾ

RUSSIAN

Sl.No	UNIT	LESSON
1	Unit - I - Life	 Alexander Push Kin Lion and Rat
2	Unit - II - Friendship	Birth DayMagical Word
3	Unit - III - Relations	RussiaMy country

LATIN

Sl.No	UNIT	LESSON
1	I. BONITATIS MUNDUS	 Prex Pro India Samaritanus Bonus Noemi Et Ruth
2	II. AMORIS MUNDUS	Caritas Numquam Excidit Adeste Fideles
3	III. CREATIONIS CORONA ET CUSTOS SAPIENS	1. Canus Orbis
4	IV. ROMANI NOBILES	1. Numa Pompilius

FRENCH

	UNITE - I				
LECONS	CONCEPT	TRADUCTION	ASPECTS COMMUNICATIFS	COMPREHENSION	
Leçon-1	-Passé Récent -Futur Proche	-en anglais -en français	-Répondez aux Questions	Le poème <déjeuner du<br="">Matin></déjeuner>	
Un voyage en avion	-Présent Progressif		-Reliez -Expression écrite -Choisissez	écrit par Jacques Prévert	
Leçon-2 Le Courrier électronique	Imparfait Adverbe	-en anglais -en français	Répondez auxQuestions-Reliez-Expression écrite-Choisissez	La fable -Boucles d'or et les Trois Ours	
		UNITE -	-II		
Leçon -3 Quoi deneuf!	-Pronoms Compléments d'objets directs -Conjonction	-en anglais -en français	 Répondez aux Questions -Reliez -Expression écrite. -Choisissez 		
Leçon -4 Remettez -vous vite?!	-Pronoms Complément d'objet indirect - La Négation	-en anglais -en français	-Répondez aux Questions -Reliez -Expression écrite -Choisissez	Un extrait de la pièce de théâtre de Jules Romain- <knock></knock>	
		UNITE -	III		
Leçon-5 Les Traces françaises en Inde	LesPronoms Relatifs☑: Qui, Que, Dont Où	-en anglais	-Répondez aux Questions - Reliez -Choisissez		
Leçon-6 Mahé – Paris de Malabar	Le Comparatif	-en anglais	-Répondez aux questions -Reliez -Choisissez	ල වු ං	

SYRIAC

Sl.No	UNIT	LESSON
1	Unit - I	Shepherd and the wolf, Number & Gender
2	Unit - II	Stag, Pronominal suffixes adde to prepositions
3	Unit - III	Nightingale and the Ass, Add suffixes to the particle 'is' or 'laith'
4	Unit - IV	Good tree, Congugation of verbs (1st Class strong verbs), Demonstrative pronouns & Adjectives.
5	Unit - VII	Development of Syriac tradition in India

GERMAN

Sl. No	Unit	Title
1	Lektion 1	FragewoerterPersonalpronomen & VerbenBerufeAdjektive
2	Lektion 2	Essen ThinkenHobbysFreizeitaktivitaeten
3	Lektion 3	• Zahlen 1-100
4	Lektion 4	 Gruesse/Wuensche Fahrzeuge
5	Lektion 6	Koerperteile
എസ്.സി.ഇ.ആർ.ടി കേരളം		

URDU

	UNIT	LESSONS	NO. of Lessons
		شاروں ہے آگے "	
ء آڪ	ستارول بــ	مِين <i>م</i> يرّر	
		رباع-میرانیس	
ابدل جاتا ہے 2	افسانه حقيقت مير	مغل المنظم فلستان كااسم إعظم	4
		مرزاغالب	
تبير 3	خواپوں کی	وواتو کوئی اور ہے	8
ت 4 ع	یاؤں کے تیج ے جا	آه!۵	10
		بوزهی کاک	11

URDU (OPTIONAL)

UNIT	LESSONS
1_زندگی بندگی نہیں	ا) مجمی غلام
	۲) زنده رہے توکیا ہے
	/\$\$(p
	۳) کرتے نہیں
	۵)نصیب نصیب کی بات
2۔انسانیت سے بڑھ کر کچھ نہیں	ר)ועיבט
	۷)غالب کی شخصیت
	۸)هروقت زمانے کا
3۔ایک گلستان ہے ہندوستان	۱۱)اتحاد
4_الفت_ونياس،ونياوالونس	
	۷۱) هزارول خوا ^{مش} یں

ENGLISH LITERATURE

Poetry

- 1. The Wild Swans at Coole
- 2. The Unknown Citizen
- 3. No More Hiroshimas
- 4. The Journey of the Magi
- 5. Ecology
- 6. Bicycle

Short Story

- 1. Doves on the Wing
- 2. We too are Human Beings
- 3. My Old Home

Non-Fiction

- 1. Excerpts from the Sixth Sense
- 2. In Memory of Azores
- 3. Role Play

Drama

Pygmalion

COMMUNICATIVE ENGLISH

Lesson	Focus Area
Unit I	Learning with Technology
Unit II	Make A Difference
Unit III	Say What You Mean
UNIT IV	Talking about People (Writing profile and describing people only)

MATHEMATICS (Science)

SI No.	Chapter _	Focus area
SI 140.	Chapter	1.2 Types of Relations
1	RELATIONS AND	1.3 Types of Functions
	FUNCTIONS	1.4 Composition of Functions and Invertible Function
	INVERSE•	1.4 Composition of Functions and invertible Function
2	TRIGONOMETRIC•	2.3 Properties of Inverse Trigonometric Functions
		3.2 Matrix
		3.3 Types of Matrices
3	MATRICES	3.4 Operations on Matrices
		3.5 Transpose of a Matrix
		3.6 Symmetric and Skew Symmetric Matrices
		4.2 Determinant
		4.3 Properties of Determinants
4	DETERMINANTS	4.5 Minors and Cofactors
		4.6 Adjoint and Inverse of a Matrix
		4.7 Applications of Determinants and Matrices
		5.2 Continuity
5	CONTINUITY AND	5.3 Differentiability
	DIFFERENTIABILITY	5.6 Derivatives of Functions in Parametric Forms
		5.8 Mean Value Theorem
	APPLICATION OF•	6.2 Rate of Change of Quantities
6		6.3 Increasing and Decreasing Functions
	DERIVATIVES	6.4 Tangents and Normals
		6.6 Maxima and Minima
	INTEGRALS	7.3.1 Integration by substitution
		7.4 Integrals of Some Particular Functions7.5 Integration by Partial Fractions
7		7.6 Integration by parts and 7.6.1
		7.9 Evaluation of Definite Integrals by Substitution
		7.10 Some Properties of Definite Integrals
	APPLICATION OF•	
8	INTEGRALS	8.2 Area under Simple Curves
		9.2 Basic Concepts
	DIEEEDENTIAL	9.4 Formation of a Differential Equation whose General Solution
9	DIFFERENTIAL•	is given
	EQUATIONS	9.5.1 Differential equations with variables separable
		9.5.3 Linear differential equations
		10.4 Addition of Vectors
10	VECTOR•ALGEBRA	10.5 Multiplication of a Vector by a Scalar
		10.6 Product of Two Vectors
		11.3 Equation of a Line in Space
	THREE•	11.5.1 Distance between skew lines
11	DIMENSIONAL•	11.6.2 Equation of a plane perpendicular to a given vector and
	GEOMETRY	passing through a given point
	LINICAD	11.6.3 Three point form
12	LINEAR• PROGRAMMING	12.2 Linear Programming Problem and its Mathematical• Formulation
	FRUGRAMIMING	13.2 Conditional Probability
13	PROBABILITY	13.4 Independent Events
13	FRODADILIT	13.5 Bayes' Theorem
		10.0 Dayos Theorem

MATHEMATICS (Commerce)

SI No.	Chapter	Focus area
		1.2 Types of Relations
1	RELATIONS AND	1.3 Types of Functions
_	FUNCTIONS	1.4 Composition of Functions and Invertible Function
	INVERSE•	
2	TRIGONOMETRIC•	2.3 Properties of Inverse Trigonometric Functions
		3.2 Matrix
		3.3 Types of Matrices
3	MATRICES	3.4 Operations on Matrices
		3.5 Transpose of a Matrix
		3.6 Symmetric and Skew Symmetric Matrices
		4.2 Determinant
		4.4 Area of a Triangle
4	DETERMINANTS	4.5 Minors and Cofactors
		4.6 Adjoint and Inverse of a Matrix
		4.7 Applications of Determinants and Matrices
		5.2 Continuity
_	CONTINUITY AND.	5.3 Differentiability
5	DIFFERENTIABILITY	5.6 Derivatives of Functions in Parametric Forms
		5.8 Mean Value Theorem
	APPLICATION OF• DERIVATIVES	6.2 Rate of Change of Quantities
6		6.3 Increasing and Decreasing Functions
		6.4 Tangents and Normals
		7.3.1 Integration by substitution
	INTEGRALS	7.4 Integrals of Some Particular Functions
7		7.5 Integration by Partial Fractions
'	INTEGRALS	7.6 Integration by Partial Practions 7.6 Integration by parts and 7.6.1
		7.9 Evaluation of Definite Integrals by Substitution
	APPLICATION OF•	
8	INTEGRALS	8.2 Area under Simple Curves
	DIEEEDENITIAL	9.2 Basic Concepts
9	DIFFERENTIAL•	9.4 Formation of a Differential Equation whose General•
	EQUATIONS	Solution is given 9.5.1 Differential equations with variables separable
		10.4 Addition of Vectors
10	VECTOR•ALGEBRA	10.5 Multiplication of a Vector by a Scalar
10	VECTOR-ALGEBRA	10.6 Product of Two Vectors
		11.3 Equation of a Line in Space
		11.5.1 Distance between skew lines
11	THREE DIMENSIONAL •	11.6.2 Equation of a plane perpendicular to a given vector•
	GEOMETRY	and passing through a given point
		11.6.3 Three point form
4.0	LINEAR*PROGRAMMING	12.2 Linear Programming Problem and its Mathematical•
12	ENVEART ROOKAWIWING	Formulation
		13.2 Conditional Probability
12	PROBABILITY	13.4 Independent Events
13		13.5 Bayes' Theorem
		13.6 Random Variables and its Probability Distributions
		,

PHYSICS

No	Chapter		Focus area
1	ELECTRIC CHARGES AND FIELDS	1.2	ELECTRIC CHARGE
		1.5	BASIC PROPERTIES OF CHARGE
		1.6	COULOMB' S LAW
		1.8	ELECTRIC FIELD
		1.9	ELECTRIC FIELD LINES
		1.10	ELECTRIC FLUX
		1.11	ELECTRIC DIPOLE
		1.14	GAUSS' S LAW
		1.15	APPLICATIONS OF GAUSS' S LAW
2	ELECTROSTATIC POTENTIAL	2.2	ELECTROSTATIC POTENTIAL
	AND CAPACITANCE	2.3	POTENTIAL DUE TO A POINT CHARGE
		2.6	EQUIPOTENTIAL SURFACES
		2.11	CAPACITORS AND CAPACITANCE
		2.12	THE PARALLEL PLATE CAPACITOR
		2.14	COMBINATION OF CAPACITORS
		2.15	ENERGY STORED IN A CAPACITOR
3	CURRENT ELECTRICITY	3.4	OHM'S LAW
		3.9	ELECTRICAL ENERGY, POWER
		3.10	COMBINATION OF RESISTORS
		3.11	CELLS, EMF, INTERNAL RESISTANCE
		3.13	KIRCHHOFF'S RULES
		3.14	WHEATSTONE BRIDGE
		3.15	METER BRIDGE
			POTENTIOMETER
4	MOVING CHARGES AND	4.2	MAGNETIC FORCE
	MAGNETISM	4.5	MAGNETIC FIELD DUE TO A CURRENT
			ELEMENT, BIOT – SAVART LAW
		4.6	MAGNETIC FIELD ON THE AXIS OF A
			CIRCULAR CURRENT LOOP
		4.7	AMPERE'S CIRCUITAL LAW
		4.10.1	TORQUE ON A RECTANGULAR
			CURRENT LOOP IN A
			UNIFORM MAGNETIC FIELD
		4.11	THE MOVING COIL GALVANOMETER
5	MAGNETISM AND MATTER	5.3	MAGNETISM AND GAUSS'S LAW
		5.4	THE EARTH'S MAGNETISM
		5.5	MAGNETISATION AND MAGNETIC
	DI ECED OLL CONTENTS		INTENSITY
6	ELECTROMAGNETIC INDUCTION		FARADAY'S LAW OF INDUCTION
		6.5	LENZ 'S LAW AND CONSERVATION
			OF ENERGY
		6.8	EDDY CURRENTS
		6.9	INDUCTANCE
		6.10	AC GENERATOR

П			
7	ALTERNATING CURRENT	7.2	AC VOLTAGE APPLIED TO A RESISTOR
		7.3	REPRESENTATION OF AC CURRENT
			AND VOLTAGE BY ROTATING
			VECTORS — PHASORS
		7.4	AC VOLTAGE APPLIED TO AN
			INDUCTOR
		7.5	AC VOLTAGE APPLIED TO A CAPACITOR
		7.6	AC VOLTAGE APPLIED TO A SERIES LCR
			CIRCUIT (Analytical Solution not necessary)
		7.7	POWER IN AC CIRCUIT: THE POWER
			FACTOR
8	ELECTROMAGNETIC WAVES	8.2	DISPLACEMENT CURRENT
		8.3	ELECTROMAGNETIC WAVES
9	RAY OPTICS AND OPTICAL	9.2	REFLECTION OF LIGHT BY SPHERICAL
	INSTRUMENTS		MIRRORS
		9.3	REFRACTION
		9.5	REFRACTION AT SPHERICAL
			SURFACES AND BY LENSES
		9.6	REFRACTION THROUGH A PRISM
		9.8.1	THE MICROSCOPE
10	WAVE OPTICS		HUYGENS PRINCIPLE
		10.5	INTERFERENCE OF LIGHT WAVE AND
			YOUNG'S DOUBLE SLIT EXPERIMENT
			POLARISATION
11	DUAL NATURE OF RADIATION		PHOTOELECTRIC EFFECT
	AND MATTER	11.6	EINSTEIN'S PHOTOELECTRIC
			EQUATION: ENERGY QUANTUM OF
			RADIATION
		11.7	PARTICLE NATURE OF LIGHT: THE
			PHOTON
12	ATOMS		BOHR MODEL OF THE HYDROGEN ATOM
		12.6	DE BROGLIE'S EXPLANATION OF
			BOHR'S
			SECOND POSTULATE OF QUANTISATION
13	NUCLEI	13.2	ATOMIC MASSES AND COMPOSITION
		1,,,,	OF NUCLEUS
		13.3	SIZE OF THE NUCLEUS
			NUCLEAR FORCE
1.4	GENTIONIDITOTO DEL COTTO NACO		RADIOACTIVITY
14	SEMICONDUCTOR ELECTRONICS:		INTRINSIC SEMICONDUCTOR
	MATERIALS, DEVICES AND	14.4	EXTRINSIC SEMICONDUCTOR
	SIMPLE CIRCUITS	14.7	APPLICATION OF JUNCTION DIODE
		140	AS A RECTIFIER
'		14.9	DIGITAL ELECTRONICS AND LOGIC GATES

CHEMISTRY

Unit no.	Name of unit	Focus area
1	The solid state	1.2 Amorphous and crystalline solids
		1.4.1 Primitive and Centred Unit Cells
		1.5 Number of atoms in a unit cell
		1.9.1 Types of point defects
		1.10 Electrical properties
		1.11 Magnetic properties
2	Solutions	2.3.2 solubility of gas in liquids
		2.4.1 Vapour pressure of liquid-liquid solutions (Raoult's law)
		2.5 Ideal and non ideal solutions
		2.6 Colligative properties and determination of molar mass
3	Electrochemistry	3.3 Nernst equation
		3.4.2. Variation of conductivity and molar conductivity with
		concentration
		3.6.2 Secondary Batteries
		3.7 Fuel cells
4	Chemical kinetics	4.2 Factors influencing rate of a reaction
		4.3.2 First order reactions and its half life period
		4.5 Temperature dependence of the rate of reaction- Arrhenius
		equation
5	Surface chemistry	5.1.3 Types of Adsorption
		5.1.4 Adsorption isotherms
		5.2.1 Homogeneous and Heterogeneous Catalysis
		5.4 Classification of colloids (5.4.2 and 5.4.3)
		5.4.6 Properties of Colloidal Solutions (Tyndall effect,
		Electrophoresis)
		5.5 Emulsions
6	General principles and Process of	6.2 Concentration of ores
	Isolation of elements	6.3 Extraction of crude metal from concentrated ore (Calcination
		and Roasting)
		6.4.1 Applications –Extraction of copper from cuprous oxide
		6.5 Hall Heroult process (Extraction of Al)
		6.7 Refining (Electrolytic refining and Vapour phase refining)
7	The P-block elements	7.3 Ammonia
		7.5 Nitric acid
		7.8 Phosphorus halides
		7.17 Sulphuric acid
		7.22 Inter halogen compounds
8	The d-and f-block elements	8.3 General properties of Transition Elements (Magnetic properties,
		formation coloured ions, formation complexes and catalytic
		property
		8.4 Some important compounds of Transition elements (Potassium
		dichromate only)
		8.5.2 Atomic and ionic sizes
		8.7 Some applications of d- and f-block elements
9	Coordination compounds	9.3 Nomenclature of coordination compounds
		9.4 Isomerism in coordination compounds

		9.5.2 Magnetic properties of coordination compounds
		9.6 Bonding in metal carbonyls
10	Haloalkanes and haloarenes	10.4.1 Preparation from alcohols
10	Traioarkanes and Traioarenes	10.4.3 Halogen exchange
		10.5 Preparation of haloarenes (By Sandmeyer's reaction)
		10.7.1 Reactions of haloalkanes (Nucleophilic substitution)
		10.7.2 Reactions of haloarenes (Electrophilic substitution)
11	A landada whan da and shans	11.4.1 Preparation of alcohols from carbonyl compounds and
11	Alcohols, phenols and ethers	Grignard reagent)
		11.4.2 Preparation of phenol (from haloarenes and diazonium salts)
		11.4.4 Chemical reactions (Lucas test, dehydration, nitration of
		phenol, Reimer Tiemann reaction)
		11.5 Some Commercially important alcohols- ethanol
		11.6.1 Preparation of ethers-Williamson synthesis
12	Aldehydes, ketones and	12.2 Preparation of aldehydes and ketones (By oxidation of
12	carboxylic acids	alcohols, by dehydrogenation of alcohols, Rosenmund
		reduction, Etard reaction, Gatterman-Koch reaction, Friedel
		Craft's reaction)
		12.4 Chemical reactions (Reduction, Oxidation, Aldol reaction,
		Cannizzaro reaction)
		12.7 Methods of Preparation of Carboxylic acid (from primary
		alcohols and aldehydes, from alkyl benzene)
		12.9 Chemical reactions (acidity, Reduction, Hell-Volhard Zelinsky
		reaction, Ring substitution)
13	Amines	13.4 Preparation of amines (Reduction of nitriles, amides,
10		Hoffmann Bromamide reaction)
		13.6 Chemical reactions (carbylamine reaction, Hinsberg test)
		13.9 Chemical reactions of diazonium salts- Sandmaeyer reaction,
		coupling reaction
14	Biomolecules	14.1.1 Classification of carbohydrates
		14.1.2 Monosaccharides (Preparation of glucose from sucrose)
		14.1.3 Disaccharides (glycosidic linkage, invert sugar)
		14.1.4 Starch, glycogen
		14.2.4 Denaturation of protein
		14.5.3 Biological functions of nucleic acids
15	Polymers	15.1 Classification of polymers
		15.2.1.2 Some important Addition polymers (Polythene, Teflon)
		15.5.2.1 Some important condensation polymers (Nylon 6, 6 and
		Nylon 6)
		15.2.4 Rubber (Natural rubber, vulcanisation)
16	Chemistry in Everyday life	16.3.1 Antacid
		16.3.3 Neurologically active drugs
		16.3.4 Anti microbials antiseptics, disinfectants)

BOTANY

Sl. No	Name of chapter	Focus	area
1.	Reproductionin organisms.	1.2.1.1.	Asexual reproduction, Gametogenesis, Fertilisation.
2	Sexual reproduction in flowering plants.	2.2.2	Structure of microsporangium, Structure of pollengrain Megasporangium-structure, megasporogenesis, Female gametophyte
			Pollination-Classification based on source of pollen (autogamy, geitonogamy and xenogamy) and agents of pollination.(wind, water and insects -peculiarities with examples) and artificial hybridisation
		2.3.2.4.2.2.4.3.	Double fertilisation, Embryo structure False fruit, True fruit and Parthenocarpic fruit
3	Strategies for enhancement in food production.	9.1.1.1. 9.1.2 9.1.3. 9.2 9.2.3.	Dairy farm management, Animal breeding, Bee keeping, Plant breeding - main steps, Plant breeding for improved food quality S.C.P, Tissue culture.
4	Biotechnology- Principles and processes.	11.2.1. 11.2.2. 11.2.3.	Tools of recombinant DNA technology Restriction enzymes, Gel electrophoresis. Cloning vectors, Competent host. Processes of rDNA technology.

		11.3.3.	Amplification of gene of
			interest using PCR,
		11.3.5.	Obtaining the foreign gene
			product.
5	Biotechnology and its	12.1.	Biotechnological applications in
	applications.		agriculture-Uses GMO's and Bt
			cotton
		12.2.1.	Genetically engineered insulin.
			Gene therapy,
		12.4.	Ethical issues.
6	Organisms and Populations.	13.1.3.	Adaptations -In organisms of
			deserts, polar regions and high
			altitudes.
		13.2.1.	Population attributes- Age
			pyramids and population
			density.
		13.2.2.	Population growth. (Up to
			population growth equation)
		13.2.4.	Population interactions –
			Parasitism, Commensalism and
			Mutualism.
7	Ecosystem.	14.2.	Productivity
		14.3.	Decomposition
		14.4.	Energy flow -Food chain, Food
			web, Trophic levels and
			Ecological pyramids.
		14.7.	Nutrient cycling -Phosphorus
			cycle.
8	Environmental issues.	16.2.	Water pollution and it's control
			BOD, Algal bloom and
		1.5.5	eutrophication.
		16.6.	Greenhouse effect and global
			warming.
		16.7.	Ozone depletion in the
			stratosphere.
		16.9.	Deforestation.
		10.7.	Delorestation.

ZOOLOGY

Revised Weightage to Content (Zoology) (Plus Two)

Sl. No	Name of the chapter	Focus Area
		3.1 Male reproductive system
		3.2 Female reproductive system
		3.3 Spermatogenesis, Oogenesis, Function of acrosome
		3.4 Menarche, Menopause, LH surge, Ovulation, Corpus Luteum
1	Chapter 3	3.5 Fertilisation (definition), Cleavage, Morula, structure of blastocyst, fate of the cells in blastocyst
	Human reproduction	3.6 Placental hormones, Stem cells, Major features of embryonic development at various months of pregnancy
		3.7 Significance of Colostrum
	Chapter 4	4.2 Various Contraceptive methods
2	Reproductive	4.4 Sexually transmitted diseases
	Health	4.5 Assisted Reproductive Technologies
		5.2.1 Law of Dominance
		5.2.2 Law of Segregation
		5.2.2.1 Incomplete Dominance
3	Chapter 5 Principles of Inheritance and Variation	5.2.2.2 Co-dominance and its example
3		5.4.1 Sex determination in Humans
		5.6.1 Pedigree analysis (definition) , symbols used in pedigree analysis
		5.6.2 Sickle Cell Anaemia, Haemophilia, Phenylketonuria
		5.6.3 Down's Syndrome, Klinefelter's Syndrome, Turner's Syndrome
		6.1 Salient features of DNA double helix,Central Dogma
	Chapter 6 Molecular basis of	6.4 DNA replication is Semiconservative why?
		6.4.2 The Machinery and the Enzymes
4		6.5 Transcription (Definition)
	inheritance	6.5.1 Transcription Unit
		6.6 Genetic code
		6.8 Levels of regulation of gene expression in eukaryotes and prokaryotes
		6.8.1 Lac Operon
		6.9 BAC, YAC
		6.9.1 Salient Features of Human Genome
		6.10 DNA fingerprinting -steps and applications

	Chantes 7	7.3 What are the evidences of evolution?
5	Chapter 7	
•	Evolution	7.7 Hardy Weinberg principle
		7.9 Origin and Evolution of man
		8.1 Common diseases in humans
	Chapter 8	8.2 Immunity - Structure of Antibody
	Chapter o	8.3 AIDS
6	Human health and disease	8.4 Cancer
	disease	8.5.3 Effects of Drug/Alcohol abuse
		8.5.4 Prevention and control
		10.1 Microbes in Household Products
	Chapter 10	10.2.3 Chemicals enzymes and other bioactive molecules
	Chapter 10	10.4 Microbes in Production of Biogas
7	Microbes in human welfare	10.5 Microbes as biocontrol agents - Bacillus thuringiensis, Trichoderma
		10.6 Microbes as Biofertilisers
		15.1 Genetic, Species & Ecological Diversity
	Chapter 15 Biodiversity and Conservation	15.1.2 Patterns of Biodiversity
8		15.1.4 Causes of biodiversity loss
O		5.2.2 In situ conservation, Ex situ conservation

COMPUTER APPLICATION (COMMERCE)

Chapter	Focus Area		
1. Review of C++	Tokens, Data types, Expressions, Type conversion, Contro		
Programming	statements. Simple programs may be asked.		
2. Arrays	Syntax to declare array, Accessing of elements, String handling, I/O functions to handle strings. Basic traversal program.		
3. Functions	Built in functions (Name, use and output), Types of arguments, Call by value and Call by reference method. (No programs required)		
4. Web Technology	Static and Dynamic web pages, Comparison of Client side and Server side scripts, Structure of HTML code, Container tags and empty tags, Common attributes of <body> tag, Use of important tags(Headings, , <p>, <hr/>, text formatting tags, <marquee>, ,), Only the essential attributes need to be considered.</marquee></p></body>		
5. Web Designing using HTML	Lists (Ordered, Unordered, Definition), <a> tag and HREF attribute, Definition of internal and external linking, Table tags, Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.		
6. Client side Scripting <script> tag, Data types, var keyword, Operat structures and Built-in functions – use and outputs.</th></tr><tr><th>7. Web Hosting</th><th>Types of web hosting, FTP client software, Free hosting</th></tr><tr><th>8. Database Management System</th><td>Advantages of database, Components of DBMS, Types of users, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)</td></tr><tr><th>9. Structured Query Language</th><td>SQL components, SQL data types, Constraints, Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only). SQL queries based on Create, Select (only WHERE clause) and Delete.</td></tr><tr><th colspan=2>10. Enterprise Functional units of ERP (listing only), Examples for ERP Resource Planning Benefits of ERP.</th></tr><tr><th>11. Trends and Issues in ICT</th><th>Mobile communication services, Short note on mobile OS, Cyber crimes against individuals.</th></tr></tbody></table></script>			

COMPUTER SCIENCE

Chapter	Focus Area
1. Structures and Pointers	Concept of structure, syntax, and creation; Defn. of Pointer, Use of & and * operators, Static V/s dynamic memory allocation, new and delete operators, Memory leak.
2. Concept of Object Oriented Programming	POP V/s OOP, five concepts of OOP
3. Data Structures and Operations	Classification of data structures, Operations on data structures, Concept of stack, queue (linear only) and linked list. Push and Pop operations with algorithms.
4. Web Technology	Static and Dynamic web pages, Comparison of Client side and Server side scripts, Structure of HTML code, Container tags and empty tags, Common attributes of <body> tag, Use of important tags (Headings, , <p>, <hr/>, text formatting tags, <marquee>, ,), Only the essential attributes need to be considered.</marquee></p></body>
5. Web Designing using HTML	Lists (Ordered, Unordered, Definition), <a> tag and HREF attribute, Definition of internal and external linking, Table tags, Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.
6. Client side Scripting using JavaScript	<script> tag, Data types, var keyword, Operators, Control structures and Built-in functions – use and outputs.</th></tr><tr><th>7. Web Hosting</th><th>Types of web hosting, FTP client software, Free hosting</th></tr><tr><th>8. Database Management System</th><th>Advantages of database, Components of DBMS, Types of users, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)</th></tr><tr><th>9. Structured Query Language</th><th>SQL components, SQL data types, Constraints, Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only). SQL queries based on Create, Select (only WHERE clause), Delete.</th></tr><tr><th>10. Server side Scripting using PHP</th><th>echo() V/s print, PHP data types, Operators and Control structures.</th></tr><tr><th>11. Advances in Computing</th><th>Serial V/s Parallel computing, Cloud computing and three services, Applications of computational intelligence – listing only</th></tr><tr><th>12. ICT and Society</th><th>Applications of ICT – Education, Business, Governance (Benefits and challenges of each). Cyber crimes against individuals.</th></tr></tbody></table></script>

COMPUTER APPLICATION (HUMANITIES)

Chapter	Focus Area
1.Introduction to Publishing	Publishing through print media(Prepress activitues, Printing processes, and Postpress jobs), Types of Electronic publishing
2. Introduction to Word Processors	Features of a word processor, Libre Office Writer IDE Components, Creating-Saving-Closing-Opening a document, Editing a document, Formatting the document, Printing the document, Short-cut keys
3.Creating Professional Documents	Inserting Tables, Converting text to table, Inserting graphics-page borders-watermarks, Splitting text into columns, Table of Contents(TOC), Mail merge
4. Web Technology	Static and Dynamic web pages, Comparison of Client side and Server side scripts, Structure of HTML code, Container tags and empty tags, Common attributes of <body> tag, Use of important tags(Headings, , <p>, <hr/>, text formatting tags, <marquee>,,), Only the essential attributes need to be considered</marquee></p></body>
5. Web Designing using HTML	Lists (Ordered, Unordered, Definition), <a> tag and HREF attribute, Definition of internal and external linking, Table tags, Listing and use of Input controls in Form, Coding questions may focus only on simple lists and simple tables.
6. Cascading Style Sheet	CSS-need and advantages, Style rules, Ways to add CSS to a web page, Universal, Type, Class, and ID selectors
7. Web Hosting	Types of web hosting, FTP client software, Free hosting
8. Database Management System	Advantages of database, Components of DBMS, Types of users, RDBMS terminologies, Relational operations (Select, Project, Union, Intersection)
9. Structured Query Language	SQL components, SQL data types, Constraints, Use of commands (DDL - CREATE TABLE, DROP TABLE; DML - SELECT, DELETE, UPDATE with essential clauses only). SQL queries based on Create, Select (only WHERE clause) and Delete.
10. Trends and Issues in ICT	Mobile communication services, Short note on mobile OS, Cyber crimes against individuals.

ELECTRONICS

1 POWER SUPPLIES AND VOLTAGE STABILIZERS

- 1.1 Need for regulated power supply
- 1.2 Block diagram of a regulated power supply
- 1.3 Definitions and expressions of load regulation and line regulation
- 1.4 Block diagrams and examples of series and shunt regulators
- 1.5 Circuit diagram and working of Zener regulator
- 1.6 Limitations of zener regulator
- 1.7 Names and output voltages of positive and negative voltage regulators
- 1.8 Connection diagram of 78XX series
- 1.9 Connection diagram and output expression of LM 317 regulator
- 1.10 Designing a typical power supply

2 WAVE SHAPING CIRCUITS

- 2.1 Circuit diagram and output waveforms of positive clipper
- 2.2 Circuit diagram and output waveforms of negative clipper
- 2.3 Circuit diagrams and output waveforms of positive clamper
- 2.4 Circuit diagrams and output waveforms of negative clamper
- 2.5 Circuit diagrams, output expressions and waveforms of basic differentiating circuit
- 2.6 Circuit diagrams, output expressions and waveforms of basic integrating circuits
- 2.7 Circuit diagrams and working of summing amplifier, subtractor, comparator using op-amp only
- 2.8 LPF, HPF and BPF Circuits only

3 DIGITAL ELECTRONICS

- 3.1 Basic differences between combinational and sequential logic circuits
- 3.2 Definition and explanation of multiplexers
- 3.3 Logic symbol, truth table and circuit implementation of a basic multiplexer
- 3.4 Basic concepts of encoders and decoders
- 3.5 Logic symbol and truth table of a basic encoder circuit
- 3.6 Circuit diagram of a basic comparator
- 3.7 Symbols and truth tables to show the basics of SR and JK flip flops
- 3.8 Symbols and truth tables to show the basics of D and T flip flops

4 RADIO BROADCASTING

- 4.1 Need for modulation
- 4.2 Basic concept of AM
- 4.3 Expression for modulation index of AM
- 4.4 Frequency spectrum and bandwidth of AM
- 4.5 Relation connecting the total and carrier powers of AM signal
- 4.6 Basics of AM generation
- 4.7 Block diagram and working of a TRF receiver
- 4.8 Block diagram and working of a basic superheterodyne receiver
- 4.9 Comparison between AM and FM CO.S. CO.S. CO.S.

5 **COMMUNICATION SYSTEMS**

- 5.1 Block diagram of a basic communication system
- 5.2 Designations of different frequency bands used for communication
- 5.3 Methods of propagation of waves as Ground waves and sky waves
- 5.4 Definitions of critical frequency and skip distance

6 **DATA COMMUNICATION**

- 6.1 Block diagram of PCM
- 6.2 Definitions of sampling, quantisation and encoding
- 6.3 Statement and equation of sampling theorem
- 6.4 Definitions of TDM and FDM
- 6.5 Waveforms of ASK, FSK and PSK

OPTICAL FIBER AND SATELLITE COMMUNICATION 7

- 7.1 Block diagram of optical fiber communication
- 7.2 Examples of light sources and detectors
- 7.3 Advantages of optical fiber communication system
- 7.4 Structure of optical fiber
- 7.5 Method of light propagation through OFC (TIR)
- 7.6 Definitions of dispersion and inter symbol interference
- 7.7 Applications of satellites

8 **TELEVISION**

- 8.1 Aspect ratio
- 8.2 Concept of interlaced scanning
- 8.3 Total channel bandwidth of TV
- 8.4 Block diagram of monochrome TV receiver

9 **FUNDAMENTALS OF COMPUTERS**

- 9.1 Block diagram of a computer
- 9.2 Definitions and examples of input and output devices
- 9.3 Definitions and examples of primary memory
- Definitions and examples of secondary memory 9.4
- 9.5 Definition of system software, Language translators-compiler and assembler only
- 9.6 Concepts of machine, assembly and high level languages

INTERNET TECHNOLOGY 10

- 10.1 Definition and advantages of computer networking
- 10.2 Definition and different types of network protocols
- 10.3 Network topologies - Diagrams of bus, star and ring topologies only
- 10.4 Data communication devices - hub, switch and repeater
- 10.5 Definition and functions of MODEM
- 10.6 Concepts of LAN, MAN and WAN

11 **BASICS OF TELEPHONE COMMUNICATION**

- 11.1 Structure of PSTN
- Concept of electronic exchange and its classification 11.2
- 11.3 Definition of cells - basic concept of frequency re-use
- 11.4 Basic concept of frequency re-use
- Definitions of different types of cells 11.5

HISTORY

SI			
No	Name of the Themes	Focus Area	
110			
1	Bricks, Beads and Bones	 Subsistence strategies – Agricultural technologies Mohenjodaro- A Planned Urban Centre – Laying out drains – Domestic architecture - The Citadel Tracking Social Differences- Burials - Looking for "luxuries" Finding out about Craft Production – Identifying centres of production Strategies for Procuring Materials - Materials from the subcontinent and beyond - Contact with distant lands Seals, Script and Weights – Seals and sealings - An enigmatic script - Weights The End of the Civilization 	
2	Kings, Farmers and Towns	 The earliest states -First amongst Sixteen: Magadha An early Empire -Finding out about the Mauryas, Administering the empire New Notions of Kingship -Chiefs and kings in the south - Divine kings Towns and Trade - New cities-Urban populations: Elites and crafts persons - Trade in the subcontinent and beyond - Coins and king The Limitations of Inscriptional evidence 	
3	Kinship, Caste and Class	 The critical edition of the Mahabharatha Handling Texts - Historians and the Mahabharatha – Language and Content A dynamic text 	
4	Thinkers, Beliefs and Buildings	 The background: sacrifices and Debates -The sacrificial tradition- New questions - Debates and discussions Mahavira -The Message of Mahavira- The spread of Jainism Buddha - The Buddha and the quest for enlightenment - The teaching of Buddha - The followers of Buddha Stupas - Why were stupas built - How were stupas built -The structure of the stupa The development of Mahayana Buddhism 	
5	Through The Eyes Of Travellers	 Al- Biruni - From Khwarizm to the Punjab -The <i>Kitab-ul-Hind</i> Overcoming barriers to understanding - Al-Biruni's description of the caste system Ibn Battuta - An early globe-trotter - The coconut and the <i>paan</i> Ibn Battuta and Indian cities- A unique system of communication Francois Bernier - A doctor with a difference - Comparing "East" and "West - The question of landownership 	
6	Bhakti – Sufi Traditions	 The Virashaiva Tradition in Karnataka The growth of Sufism (Khanqahs and sisilas) New devotional paths – Dialogue and Dissent in North India - Kabir - Baba Guru Nanak and Mirabai 	

7	An Imperial Capital Vijayanagara	 The Capital and its environs - Water resources - Fortifications and roads Royal Centre - The <i>mahanavami dibba</i> - Other buildings in the royal centre Sacred Centre - Choosing a capital - <i>Gopurams</i> and <i>mandapas</i> 	
8	Peasants, Zamindars and The State	Peasants and agricultural production - Peasants and their lands (<i>Idual-kashta</i> and <i>pahi-kashta</i>) Women in Agrarian society	
9	Kings and chronicles	 The Akbar Nama and The Badshah Nama Capitals and Courts - Capital cities 	
10	Colonialism and the Countryside	 The Hoe and the Plough - In the hills of Rajmahal The Santhals: Pioneer settlers 	
11	Rebels and The Raj	 Leaders and Followers Rumours and prophecies Images of the revolt -Celebrating the saviours - English women and the honour of Britain - Vengeance and retribution - The performance of terror - No time for clemency - Nationalist imageries 	
12	Mahatma Gandhi and The Nationalist Movement	 A leader announces himself The making and unmaking of Non -cooperation -Knitting a popular movement -A people's leader Salt Satyagraha, A case study - Dandi - Dialogues Quit India 	
13	Understanding Partition	Gendering partition - "Recovering" womenOral Testimonies and History	
14	Pre Modern Kerala	Iron age –Megalithic phase- Burial monuments Forms of Subsistence (<i>Tinais</i>) - Kurinji- Mullai- Palai – Marutam – Neital	
15	Kerala : Towards Modernity	 Early Resistance against Colonialism –The Pazhassi revot- Velu Thampi and Paliath Achan –Kurichiya revolt - Mapplia outbreaks Social reform – Reformers and movements Struggle for a Democratic Society – Shanar agitation – Vaikom Satyagraha –Gruvayur Satyagraha –Temple entry proclamation – Paliyam Satyagraha 	

POLITICAL SCIENCE

	POLITICS IN INDIA	SINCE INDEPENDENCE
Sl. No	Chapter	Topics
1	Challenges of Nation- building	a. Three Challenges.b. Partition: displacement and Rehabilitation.c. Integration of Princely states.d. Re-organisation of States.
2	Era of One-party Dominance	a. Challenge of building Democracy. (First General Election: a mammoth exercise?) b. Congress dominance in the first three general elections.
3	Politics of Planned Development	a. Idea of Development, Planning and Five Year Plans in India.b. Key Controversies: Agriculture Vs Industry and Public Vs Private Sector.
4	India's External Relations	a. Three objectives of Nehru's Foreign Policy.b. Peace and Conflict with China.c. Wars and Peace with Pakistan.
5	Challenges to and Restoration of the Congress System	a. Fourth General Elections 1967 b. Split in the Congress.
6	The Crisis of Democratic Order	a. Background to Emergency.b. Declaration of Emergency and Consequences.
7	Rise of Popular Movements	a. Chipko Movement. b. Anti-Arrack Movement. c. Movement for Right to Information.
8	Regional Aspirations	a. Jammu and Kashmir. b. The North-East.
9	Recent Developments in Indian Politics	a. Context of the 1990s. (The five major developments) b. Communalism, Secularism, Democracy.
	CONTEMPORARY	WORLD POLITICS
1	The Cold War Era	a. What is Cold War? b. Challenges to Bipolarity: NAM.
2	The End of Bipolarity	a. Soviet System and its disintegration.b. Shock Therapy and its Consequences.

3	US Hegemony in World Politics	a. The three different understandings of Hegemony.
4	Alternative Centres of Power	a. The Rise of Chinese Economy.
5	Contemporary South Asia	a. Areas of Co-operation and Differences between India and its South Asian neighbours.
6	International Organisations	a. Reform of the UN Structures and Process and of Jurisdiction. b. India and the UN Reforms.
7	Security in the Contemporary World	a. What is Security? b. New sources of Threats.
8	Environment and Natural Resources	a. 'Global Commons' and 'Common Property Resources'. b. 'Common but differentiated Responsibility'. c. India's stand on Environmental issues.
9	Globalisation	a. Political and Economic Consequences of Globalisation.

GEOGRAPHY

FUNDAMENTALS OF HUMAN GEOGRAPHY

Chapter No	Name of the Chapter	Focus Area
1	Human Geography-Nature	Human Geography- Definitions,
	and Scope	Environmental Determinism, Possibilism
		and Neodeterminism
2	The World Population-	Density of Population - Definition,
	Distribution, Density and Growth	Factors influencing the distribution of
		population, Demographic Transition
3	Population Composition	Sex Ratio- Definition and Formula-
		Age Sex Pyramid
4	Human Development	Human Development- Definition,
		The Four Pillars of Human Development
5	Primary Activities	Pastoralism - Transhumance,
		Commercial Livestock Rearing
		Primitive Subsistence agriculture,
		Plantation Agriculture,
		Mining
6	Secondary Activities	Classification of Manufacturing Industries
7	Tertiary and Quaternary Activities	Tertiary, Quaternary and Quinary
		Activities - Definitions only
8	Transport and Communication	Modes of Transportation, Advantages of
		road transport, Trans Siberian Railway,
		North Atlantic Sea Route, Suez Canal,
		The Rhine waterway, Advantages of Air
		Transport
9	International Trade	Balance of Trade,
		Types of International Trade,
		Types Ports - On the basis of specialised
		functions
10	Human Settlements	Rural Settlement Pattern on the basis of
		forms or shape,
		Problems of Urban Setttlements

PEOPLE AND ECONOMY

1	Population : Distribution,	Indian Demographic History - Four
	Density, Growth and Composition	Phases of Population growth
2	Migration : Types, Causes and	Types of Migration - International and
	Consequences	Internal Migration, Causes of Migration
3	Human Development	Indicators of Human Development-
		Economic, Health and Social Indicators
4	Human Settlements	Types of Rural Settlements
		Types of Urban Settlements - Based on
		evolution
5	Land Resources and Agriculture	Cropping Seasons, Types of Farming,
		Problems of Indian Agriculture
6	Water Resources	Watershed Management- Defintion,
		Programmes - Haryali, Neeru-Meeru,
		Arvary Pani Sansad
7	Mineral and Energy Resources	Classification Minerals,
		Major Minerals (Their uses and Leading
		Producers)
		Advantages of non conventional energy
		sources with examples
8	Manufacturing Industries	Factors influencing the location of
		industries, Iron and Steel Industries,
		Major Industrial Regions (Name and
		Location Only)
9	Planning and Sustainable	Planning - Definition ,
	- -	Two approaches - Sectoral Planning and
		Regional Planning
		Sustainable Development - Definition
10	Transport and Communication	Golden Quadrilateral, Advantages of
		Water Transport, Advantages of Pipeline
		Transport, Types of Communication -
		Personal and Mass communication with
		examples
11	International Trade	Direction of Trade, Sea Ports
12	Geographical Perspective on	Types and Sources of Pollution - Air,
	Selected Issues and Problems	Water, Land and Noise

GEOLOGY

The world of rocks

Igneous rocks - magma and lava,

Plutons- dyke, sill and batholith

Classification of igneous rocks- plutonic, hypabyssal and volcanic rocks

Textures of igneous rocks-granularity (coarse, medium and fine grained rocks), phaneritic and aphanitic textures, crystallinity-holocrystalline, glassy and frothy textures.

Compositional classification of igneous rocks-felsic, mafic and ultramafic rocks.

Common igneous rocks - granite, gabbro, dolerite, basalt and dunite.

Sedimentary rocks- formation of clastic and non clastic sedimentary rocks.

Textures of sedimentary rocks-terms related to grain size (clay, silt, sand and gravel), rounding and sorting.

Sedimentary structures- bedding/stratification, ripple marks, mudcracks, rain drop marks.

Common sedimentary rocks- Conglomerate, sandstone, shale and limestone.

Metamorphism- Agents of metamorphism

Common metamorphic rocks-slate, schist, gneiss, marble, quartzite and charnockite.

The concept of rock cycle.

2. Economic mineral deposits

Mineral, ore and gangue,

Names of ores of common metals- hematite, magnetite, chalcopyrite, bauxite, galena, pyrolusite, ilmenite and monazite.

Mineral based industries in Kerala.

Uses of major industrial minerals- mica, gypsum, asbestos, graphite and clay.

Fossil fuels

Coal, petroleum and natural gas.

Properties of coal- calorific value and fixed carbon

Origin of coal- Coalification process

Types of coal.

Chemical properties and products of petroleum.

Geology and environment

Effects of mining- deforestation, landslides, water pollution, lowering of water table, air and sound pollution, damage to habitat and biodiversity,

Impacts of sand mining on environment.

Major sources of contamination of ground water.

Green house effect and global warming- major consequences of global warming.

Resources- natural and artificial resources, renewable and non-renewable resources.

Conservation of natural resources for sustainable development.

Earthquakes

Earthquake related terminologies-definition of focus, epicenter, seismology and seismic waves. Tectonic & Non Tectonic causes of earthquakes.

Seismic waves- Body waves (primary and secondary waves) & surface waves

Difference between seismograph and seismogram.

Magnitude and intensity, Richter and mercalli scales of earthquake (Basics only).

Effects of earthquakes-damage to structures, tsunami, fire, landslides and liquefaction.

Geological hazards and disaster management

Basic concepts in disaster management- hazard, disaster, vulnerability, risk and capacity. Phases of disaster management- preparedness, response, recovery and mitigation (Basics

Causes and mitigation of flood hazards.

Types of volcanoes and effects of volcanoes

Causes and mitigation of landslides.

Mitigation of coastal erosion.

STATISTICS

1. Correlation Analysis

Meaning of Correlation, Types of Correlation - Positive, Negative, Zero. Methods of studying Correlation - Scatter diagram, coefficient of correlation, Karl Pearson's coefficient of correlation, Spearman's Rank correlation (non repeated only).

2. Regression Analysis

Concept of Regression, Regression Lines, Equation of Regression lines, Properties of regression coefficients.

3. Elementary Calculus

First derivative and Second derivative of simple linear functions. Integration of simple functions. Definiteintegrals.

4. Random Variables

Random Variables- Discrete and Continuous. Discrete Random Variables -Probability mass function (pmf), Cumulative Distribution Function (cdf). Mean, Variance and their properties. Continuous Random Variables - Probability density function (pdf), properties of pdf.

5. Discrete Probability Distributions

Binomial Distribution-pmf, mean and variance. Poisson Distribution-pmf, mean and variance.

6. Normal distribution

Normal Probability Density function, Mean and Variance, Normal curve and its properties. Standard Normal Distribution, Z - transformation and Z - score, Standard Normal Tables, simple problems based on Standard Normal Tables.

7. Sampling Distributions

Parameter and Statistic, Sampling Distribution, Determination mean of sample mean (SRSWOR).

8. Estimation of parameters.

Statistical inference, Estimation of Parameters, Point Estimation, Properties of a Good Estimator -Unbiasedness, Consistency, Sufficiency and Efficiency.

9. Testing of Hypothesis

Statistical Hypothesis, Test statistic and Critical Region, Type I and Type II Errors, Level of Significance and Power of Test, Test for significance of Single Mean (large sample only).

10. Analysis of Variance

Causes of variations, Assumptions underlying ANOVA, One way classification by using ANOVA Table.

11. Statistical Quality Control

Meaning of Quality, Causes of variations, Variable Control Charts (x chart only)

12. Time Series Analysis

Components of Time series, Trend analysis- Method of semi averages, moving averages.

13. Index Numbers

Types of Index numbers - Simple Index Number (Simple AM), Simple Aggregate Method, Weighted Index number (Laspeyre's, Paasche's, Fisher's Index Numbers). Uses of Index Numbers.

ACCOUNTANCY WITH ANALYSIS OF FINANCIAL STATEMENTS

Part I ACCOUNTANCY

No. Name of unit and Focus Areas

1 Accounting for Not-for-Profit Organisation

Meaning and Characteristics of Not-for-Profit Organisation

Accounting Records of Not-for-Profit Organisations

Receipts and Payments Account – Salient Features

Preparatation of Receipts and Payments account

Preparation of Income and Expenditure Account

Distinction between Income & Expenditure Account and Receipts and

Payments Account

Treatment of Peculier items - Subscriptions and Special Funds

Accounting for Partnership - Basic Concepts

Nature of partnership

Partnership deed and its contents

Provisions of Partnership Act relevant for Accounting

Maintenance of Capital Accounts of Partners

Distinction between Fixed and Fluctuating Capital Accounts

Profit & Loss Appropriation Account

Calculation of Interest on drawings

3 Reconstitution of Partnership - Admission of a Partner

Modes of Reconstitution of a Partnership Firm

Admission of a New Partner

New profit sharing ratio & Sacrificing ratio

Goodwill – Factors Affecting the value of goodwill

Methods of valuation of goodwill (Average Profit & Super profit Methods)

Treatment of goodwill (When the new Partner brings goodwill in cash.)

Adjustment for Accumulated Profits and Losses

Revaluation of Assets and Reassessment of Liabilities

Preparation of Revaluation account, Partners Capital Account & Balance sheet

Reconstitution of Partnership -Retirement & Death of a partner

New profit sharing ratio & Gaining ratio

Adjustment for Revaluation of Assets and Liabilities

Adjustment of Accumulated Profits and Losses

Disposal of Amount due to Retiring Partner

Preparation of Partner's Loan Account

5 Dissolution of Partnership Firm

Dissolution of Partnership

Dissolution of a Firm - Modes of dissolution S

Distinction between Dissolution of partnership and dissolution of firm

Preparation of Realisation A/c

Part II COMPANY ACCOUNTS AND ANALYSIS OF FINANCIAL STATEMENTS

No. Name of unit and Focus Areas

1 Accounting for share capital

Features and types of companies

Share capital and its categories

Nature and classes of shares

Issue of shares – basic journal entries

Calls in arrears and calls in advance

Issue of shares at par and at premium

Over subscription

Under subscription

Forfeiture of shares

2 Issue and redemption of debentures

Meaning and types of debentures

Difference between shares and debentures

Issue of debentures for cash

Redemption of debentures – Different ways (Theory only)

3 Financial statements of a company

Meaning and types of Financial Statements

Objectives of Financial Statements

Limitations of Financial Statements

4 Analysis of financial statements

Objectives of Analysis of Financial Statements

Tools of Analysis of Financial Statements

Comparative statements

Common size statements

Limitation of Analysis of Financial Statements

5 Accounting Ratios

Meaning, advantages and limitations of ratio analysis

Liquidity ratio (Current ratio and Liquid ratio)

Solvency ratio (Debt equity ratio and Proprietary ratio)

Activity ratio (Inventory turnover and Working capital turnover ratio)

Profitability ratio (Gross Profit Ratio, Net Profit Ratio)

6 Cash flow statements

Meaning of Cash flow statements

Classification of activities for preparation of Cash flow statements

ACCOUNTANCY WITH COMPUTERISED ACCOUNTING

Part I ACCOUNTANCY

No. Name of unit and Focus Areas

1 Accounting for Not-for-Profit Organisation

Meaning and Characteristics of Not-for-Profit Organisation

Accounting Records of Not-for-Profit Organisations

Receipts and Payments Account – Salient Features

Preparatation of Receipts and Payments account

Preparation of Income and Expenditure Account

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5 Dissolution of Partnership Firm

Dissolution of Partnership

Dissolution of a Firm - Modes of dissolution

Distinction between Dissolution of partnership and dissolution of firm

Preparation of Realisation A/C

Part II COMPUTERISED ACCOUNTING

No. Name of unit and Focused Areas

1 Overview of Computerised accounting system

Computerised Accounting system – Meaning
Features of computerised accounting system
Components of computerised accounting system
Codification of Accounts – Types of codes
Merits and Demerits of computerised accounting system

2 Spread Sheet

Features of LibreOffice Calc Components of LibreOffice Calc Spread Sheet Operations Cell references Functions (Date and Time, Statistical, Logical and Mathematical)

3 Use of spreadsheet in Business Applications

Payroll Accounting Asset Accounting

4 Graphs and Charts for Business Data

Column chart, Bar chart, Pie Chart Elements of a Graph/Chart Advantages of Graphs and Charts

5 Accounting Software Packge - GNUKhata

Creation of organisation Ledger Creation System generated ledger accounts Types of vouchers and Voucher entry

6 Database Management System

Database – Meaning Database Management System – Meaning Creating Table in design view

BUSINESS STUDIES

No. Name of unit and Focused Areas

1 Nature and significance of Management

Meaning and charateristics of management
Objectives of Management
Nature of management – Art, Science and Profession
Levels of management
Co-ordination – the essense of management
Importance of Co-ordination

2 Principles of management

Taylor's Scientific Management Techniques of Scientific Management Fayol's Principles of Management

3 Business Environment

Meaning of Business Environment
Importance of Business Environment
Dimensions of Business Environment
Economic environment in India - Liberalisation, Privatisation, Globalisation

4 Planning

Planning – Features Importance of Planning Planning Process Types of Plans

5 Organising

Organising – Meaning Organisational structure and its types Formal and Informal organisation - Differences Delegation and Elements of delegation

6 Staffing

Staffing – Meaning
Staffing process
Sources of Recruitment
Important tests used for Selection of Employees
Training Methods

7 Directing

Directing - Meaning

Elements of directing - Supervision, Motivation, Leadership, Communication

Maslow's Need Hierarchy Theory

Leadership – Qualities of a good leader

Elements of Communication Process

Formal and Informal communication (Meaning)

8 Controlling

Controlling - Meaning

Controlling process

Techniques of managerial control - Traditional Techniques

9 Financial Management

Financial Management

Finacial decisions - Investment decision - Financing decision - Dividend

decision (Meaning only)

Capital structure - Meaning

Factors affecting the choice of capital structure

Fixed capital and Working capital (Meaning)

10 Financial Markets

Concept of Financial market

Money market - instruments

Capital market (Meaning)

Distinction between money market and capital market

Stock exchange – Functions

11 Marketing

Marketing and selling

Functions of marketing

Marketing mix – Elements of marketing mix

Pricing – Factors affecting price determination

Advertising – Merits and Limitations

Sales promotion – Commonly used sales promotion activities

12 Consumer Protection

Consumer protection Act

Consumer Rights

Redressal agencies under the Consumer Protection Act

ECONOMICS

Part. 1 - INTRODUCTORY MICROECONOMICS

Chapter	Focus Area
Chapter 1 Introduction	1.1 A SIMPLE ECONOMY 1.2 CENTRAL PROBLEMS OF AN ECONOMY 1.3 ORGANISATION OF ECONOMIC ACTIVITIES 1.3.1 The Centrally Planned Economy 1.3.2 The Market Economy 1.5 MICROECONOMICS AND MACROECONOMICS
Chapter 2 Theory of consumer Behaviour	2.1 UTILITY 2.1.1 Cardinal Utility Analysis 2.1.2 Ordinal Utility Analysis 2.2 THE CONSUMER'S BUDGET 2.2.1 Budget Set and Budget Line 2.3 OPTIMAL CHOICE OF THE CONSUMER 2.4 DEMAND 2.4.1 Demand Curve and the Law of Demand 2.4.3 Normal and Inferior Goods 2.4.4 Substitutes and Complements 2.4.5 Shifts in the Demand Curve 2.4.6 Movements along the Demand Curve and Shifts in the Demand Curve 2.5 MARKET DEMAND
Chapter 3 Production and costs	3.1 PRODUCTION FUNCTION 3.2 THE SHORT RUN AND THE LONG RUN 3.3 TOTAL PRODUCT, AVERAGE PRODUCT AND MARGINAL PRODUCT 3.4 THE LAW OF DIMINISHING MARGINAL PRODUCT AND THE LAW OF VARIABLE PROPORTIONS 3.7 COSTS 3.7.1 Short Run Costs

Chapter 4 The Theory of the Firm under Perfect Competition	4.1 PERFECT COMPETITION: DEFINING FEATURES 4.2 REVENUE 4.3 PROFIT MAXIMISATION 4.3.1 Condition 1 4.3.2 Condition 2 4.3.3 Condition 3 4.3.4 The Profit Maximisation Problem: Graphical Representation 4.4 SUPPLY CURVE OF A FIRM 4.4.1 Short Run Supply Curve of a Firm 4.4.2 Long Run Supply Curve of a Firm 4.4.3 The Shut Down Point 4.4.4 The Normal Profit and Break-even Point
Chapter 5 Market Equilibrium	5.1 EQUILIBRIUM, EXCESS DEMAND, EXCESS SUPPLY 5.2 APPLICATIONS
Chapter 6 Non-competitive Markets	6.1 SIMPLE MONOPOLY IN THE COMMODITY MARKET 6.1.1 Market Demand Curve is the Average Revenue Curve 6.1.2 Total, Average and Marginal Revenues

Part .2 -INTRODUCTORY MACROECONOMICS

Chapter	Focus Area	
Chapter 1 Introduction	1.1 EMERGENCE OF MACROECONOMICS	
Chapter 2 National Income accounting	2.1 SOME BASIC CONCEPTS OF MACROECONOMICS 2.2.1 The Product or Value Added Method 2.2.2 Expenditure Method 2.2.3 Income Method 2.2.4 Factor Cost, Basic Prices and Market Prices 2.2 CIRCULAR FLOW OF INCOME AND METHODS OF CALCULATING NATIONAL INCOME 2.4 NOMINAL AND REAL GDP	
Chapter 3 Money and Banking	3.1 FUNCTIONS OF MONEY 3.2 DEMAND FOR MONEY AND SUPPLY OF MONEY 3.2.1. Demand for Money 3.2.2. Supply of Money	

Chapter 6 Open Economy Macroeconomics	6.1 THE BALANCE OF PAYMENTS 6.1.1 Current Account 6.1.2 Capital Account 6.2 THE FOREIGN EXCHANGE MARKET 6.2.1Foregn Exchange Rate 6.2.2 Determination of the Exchange Rate
Chapter 5 Government Budget and the Economy	5.1 GOVERNMENT BUDGET — MEANING AND ITS COMPONENTS 5.1.1 Objectives of Government Budget 5.1.2 Classification of Receipts 5.1.3. Classification of Expenditure 5.2 BALANCED, SURPLUS AND DEFICIT BUDGET
Chapter. 4 Determination of Income and Employment	4.1 AGGREGATE DEMAND AND ITS COMPONENTS 4.1.1. Consumption 4.1.2. Investment 4.2 DETERMINATION OF INCOME IN TWO-SECTOR MODEL 4.3 DETERMINATION OF EQUILIBRIUM INCOME IN THE SHORT RUN 4.3.1 Macroeconomic Equilibrium with Price Level Fixed 4.3.2 Effect of an Autonomous Change in Aggregate Demand on Income and Output 4.3.3 The Multiplier Mechanism

MUSIC

Sl. No	UNIT	FOCUS AREA
1	CLASSIFICATION OF JANYA RAGAS	 1.1 Introduction 1.2 Varjya ragas 1.3 Shadava, Audava and Svarantara ragas 1.4 Vakra ragas 1.6 Upanga ragas and Bhashanga ragas 1.8 Ghana-Naya-Desya ragas
2	MUSICAL FORMS	2.2 Varnam 2.2.1 Tanavarnam 2.3 Kirtana 2.4 Kriti
3	MUSIC OF KERALA	3.2 SopanaSangita 3.2.1 Ragas employed in Sopana Sangeetha 3.2.2 Theme 3.2.3 Tala 3.2.4 Prominent Musicians 3.6 Folk Music Of Kerala 3.6.1 Songs belonging to the rustic variety 3.7 Ceremonial Songs 3.8 Tiruvathira or KaikottikkaliPattu 3.11 MargamkaliPattu 3.12 MappilaPattu
4	MUSICAL INSTRUMENTS	4.1 Introduction 4.2 Stringed instruments 4.3 Wind instruments
5	MUSIC CONCERTS	5.2 Vocal concert 5.3 Instrumental concert
6	COMPOSERS- TRINITY	6.1 Introduction 6.4 Compositions Of Tyagaraja 6.2.1 Introduction 6.2.3 Dikshitar's Last Days 6.2.4 Dikshitar's Contributions 6.2.7 Group Kritis of Dikshitar 6.3.1 Introduction 6.3.2 Early life of SyamaSasthri 6.3.4 Syama Sasthri's contributions 6.3.7 Syama Sasthri's style 6.3.8 Navaratnamalika
7	RAGALAKSHNA	7.1 Mayamalavagaula 7.4 Mohanam 7.6 Bilahari

GANDHIAN STUDIES

No.	Chapter Name	Focus Points
1	Hind Swaraj or Indian Home Rule	Historical Background. Influences. Contents. Gandhi's concept of Swaraj and Parliamentary Democracy. Gandhi's views on Civilisation. Characteristics of True Civilisation. Gandhi's critique of Modern Civilisation. Machinery
2	Educational Philosophy of Mahatma Gandhi	Gandhi's New Scheme of Education and definition. Wardha Scheme of Education. Aims of Gandhian Education. Features of Wardha Scheme of Education. Content of Basic Education. Merits of Basic Education. Influences of Gandhi on Education Commissions.
3	Gandhian Vision of Peace	Violence and its various forms. Concept of Peace, negative peace and positive peace. Gandhian notion of peace. Conflict. Types of conflict. Conflict resolution and various methods of conflict Resolution. Gandhian method of conflict resolution.
4	Non-violent Social Movements and Social Change	Social movements and different types. Concept and definition of social change. Gandhi's views and methods of social change. Gandhian Social action in India
5	Rural Reconstruction	Concept, objective, elements and dimensions of rural development. Gandhiji's views and strategies of rural reconstruction. MGNREGA and Kudumbasree
6	Rural Administration	Gandhian vision of Panchayati Raj. Balwantrai Mehta Committee, Ashok Mehta committee, P K Thungon Committee. 73 rd Amendment Act and its features. Gram Sabha
7	Gandhian vision of Development	Development in Crisis, Displacement and Marginalisation. Sustainable development. Gandhian model of development.
8	Mahatma Gandhi and Environment	Environmental Crisis. Depletion of Natural Resources, Consumerism. Environmental Pollution-Air, Water and Soil. Environmental Movements in India – Chipko, Navadhanya and NBA. Appropriate Technology. Relevance of Gandhi's Environmental Thought

JOURNALISM

No.	Unit	Focus Area
1	Writing for Magazines	Difference between newspaper and magazine General interest magazines & Special interest magazines, Cover Story Structure of a feature Types of features
2	Magazine Editing and Production	Principles of magazine Editing Principles of magazine design, Elements of magazine design Functions of layout
3	Writing and Production for Radio	Broadcast technologies Types of radio broadcasting News Bulletin Types of Radio Programmes, Digital recording Qualities of a good radio presenter Radio news reader Radio Jockey
4	Television news And video Production	1.Television in India2.Making of a television or video programme(Stages of Production)3.Writing for television news cast.
5	Film Appreciation	Famous personalities behind the film such as Eadweard Muybridge, Lumiere Brothers, David W.Griffith ,Charlie Chaplin The grammar of Cinema.
6	New Media Concepts And Applications	Characteristics of Online journalism User generated content
7	Basics of Technical Writing	Definition of Technical Writing Structure of a user manual
8	Advertising	Functions of advertising Dysfunctions of advertising Types of advertisements Components of a display advertisement
9	Public Relations and Corporate Communication	The role of public relations officer Tools for communication Corporate Communication Definitions of corporate communication Functions of corporate communication New media tools

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SOCIOLOGY

UNIT	FOCUS AREA
1. INTRODUCING INDIAN SOCIETY	Advantages and disadvantages of prior knowledge in sociology- learn to unlearn-Self reflexivity- Social map- commonsense knowledge - commonsense Map-
2.THE DEMOGRAPHIC STRUCTURE OF THE INDIAN SOCIETY	Demography- formal and social – Theories of demography- Common concepts and indicators-
3. SOCIAL INSTITUTIONS: CONTINUITY AND CHANGE	Caste in the past- caste in the present- Classification of Tribal Societies -National development versus Tribal development- Family Types of family.
4. THE MARKET AS A SOCIAL INSTITUTION	Commoditisation and Consumption- Globalisation of Market – Virtual market- Debate on Liberalisation (Market versus State)
5. PATTERNS OF SOCIAL INEQUALITY AND EXCLUSION	Social Inequality and Exclusion- Untouchability – O B C- Adivasi Struggle- Struggle for women's equality and rights - the struggles of the Disabled.
6.THE CHALLENGES OF CULTURAL DIVERSITY.	Nation and Nation States- Cultural diversity and India- Communalism - Secularism and the Nation State.
7. STRUCTURAL CHANGES.	Urbanisation and Industrialisation in colonial experience- Urbanisation and Industrialisation in Independent India.
8.CULTURAL CHANGES.	Sanskritisation, Westernisation, Modernisation and Secularisation.
9.THE STORY OF INDIAN DEMOCRACY.	Ideals of Panchayat Raj — Powers and Responsibilities of panjayat-Panchayat Raj in tribal area- Political parties , pressure groups and Democratic politics.
10.CHANGE AND DEVELOPMENT IN RURAL SOCIETY	The Impact of land reforms during colonial period- Green revolution and its consequences. Circulation of labour.
11.CHANGE AND DEVELOPMENT IN INDUSTRIAL SOCIETY.	Globalisation, Liberalisation, and Changes in Indian IndustryHome based work- Strikes and Unions.
12. GLOBALISATION AND COMMUNICATION	Different Dimensions of Globalisation -Globalisation of culture- Gender and Culture- Culture of Consumption.
13.MASS MEDIA AND COMMUNICATION.	Globalisation and the media : Print media, Television , Radio
14.SOCIAL MOVEMENTS	Features of social movement -Sociology and social movements- Types of Social Movements : Reformative, Redemptive, Revolutionary The Dalit movement -The tribal movements.

SOCIAL WORK

Unit No	Unit Name	Focus Area
1	Social work -Primary Methods	 1.1 Social case work - Meaning, , objectives, principles, relationship in social case work, Components of social case work, process in social case work 1.2 Social Group wok - Meaning, objectives, process, Group Behavior and Group dynamics 1.3 Community organization - Meaning, Process of Community Organization.
2	Social work-Secondary Methods	 2.1 Social Action – definition, Strategies, Social Action Groups. 2.2 Social welfare Administration-Process and functions of Social Welfare Administration Organogram 2.3 Social work research – Meaning
3	Leadership and Communication	 3.1 Leadership – definition, qualities of leader, Types of leadership. 3.2 Communication – Process of Communication, Barriers of communication.
4	Development and Resource Mobilization	4.1 Development – meaning, Dimension of development 4.2 Community development Meaning- Community Development Programme- MGNREGP 4.4 Participatory Rural Appraisal(PRA) - Resource Map 4.5 Methods of Resource mobilization.
5	Health	5.1 Health – definition of health, Indicators of health. 5.3 Wellness
6	Hygiene and Health Care Services	 6.1 Hygiene Meaning 6.2 Pollution Meaning , Prevention and control of Pollution. 6.7 National Health Programmes –National AIDS Control Programme
7	Guidance and Counselling	7.3 Counselling – meaning Counselling Skills.
8	Family Life Education	 8.1 Family Life Education –Objectives of Family Life Education 8.2 Sex education – Meaning 8.5 Sexually Transmitted Diseases(STD) 8.8 Gender Equality and Equity
9	International Social Work	9.4 Global Organization in Social work –UNICEF, WHO.

ISLAMIC HISTORY AND CULTURE

- Unit 1. The Abbasid Khilafat the cosmopolitan Empire.
- Unit 2. Muslim khilafath in the Afro- Asian continents.
- Unit 3. The legacy of Islamic Spain.
- **Unit 4**. Muslim World under the Ottomans.
- Unit 7. Muslim Rule in India- State, Society and Culture.

PHILOSOPHY

Chapter 1

Philosophising

Doing philosophy Characteristics of philosophic concepts Skills to master philosophy Norms of learning philosophy Uses of learning philosophy

Chapter 2

Philosophy of Prasthanatraya

Vedas

Upanishads

- Brahman
- Atman
- Brahman-Atman relation
- Mahavakyas

Bhagavat Gita

- Concept of Yoga and Nishkamakarma
- Stitaprajna

Brahma Sutra

Chapter 3

Darsanas

Schools of Indian philosophy (Astika and Nastika Darsanas) Orthodox schools

- •Nyaya Darsana- theory of knowledge, 4 pramanas
- Vaisesika Darsana The concept of Categories
- •Samkhya Darsana The EvolutionTheory.
- •Yoga Darsana Astanga yoga
- •Purva Mimamsa 6 pramanas
- •Uttara Mimamsa:

Advaita - levels of existence, concept of Maya Visistadvaita Dvaita - Panchabhedas

Heterodox schools

- Buddhism- Aryasatyas, Astangamarga
- Jainism Syadvada (7 forms of judgement), Jaina ethics

Chapter 4

Contemporary Indian Thinkers

Characteristics of Modern Indian philosophy

- Swami Vivekananda Universal Religion
- Mahatma Gandhi Sarvodaya, Basic tenants of education
- Sri Aurobindo Integral Yoga
- Sir Mohammad Iqbal Nature of the Self
- Thinkers in Kerala

Chapter 5

Greek Philosophy

Thales

Heraclitus

Socrates - Dialectical method

Plato – Theory of Ideas

Aristotle – Form and Matter

Chapter 6

Modern Western Philosophy

Characteristics of Modern Western Philosophy

Rationalism

Rene Descartes - Cogito ergo sum

Empiricism

John Locke - Rejection of innate ideas, theory of knowledge.

Idealism - definition

Materialism - definition

Chapter 7

Recent Trends in Philosophy

Existentialism

- Characteristics of Existentialism
- Two camps of Existentialism.
- Important concepts discussed by Kierkegaard.

Pragmatism- definition

Chapter 8

Ethics

Definition of ethics.

Plato's Cardinal Virtues

Theories of Punishment

Chapter 9

Applied Ethics

Definition of Applied Ethics

Professional Ethics – Definition

• Teacher and student Ethics

Cyber Ethics

Environmental Ethics

• Role of an environmental Philosopher

The problem of E- waste

Chapter 10

Philosophy of Religion

Religion: Meaning and Definition

Nature and scope of Philosophy of Religion

Theories of Religion

HOME SCIENCE

Chapter 1 – BASIC NUTRITION

- Definition and Dimensions of health
- 2. Optimum and malnutrition
- 3. Classifications of
 - Carbohydrate
 - b. Protein
 - Lipids C.
 - d. Minerals
 - e. Vitamins
- 4. Functions of
 - Carbohydrates
 - **Proteins** b.
 - VitaminA C.
 - Calcium d.
 - Iron
- 5. Deficiency diseases
 - **PEM** a.
 - b. Vitamin A
 - Vitamin C C.
 - Ca/ Vitamin D d.
 - Iron e.
 - Significance of dietary fibre

Chapter 2 - A GUIDE TO HEALTHY LIVING

- Classification of Food
- 2. Objectives of Cooking Food
- 3. Methods of Cooking
 - Steaming
 - Pressure cooking
 - Electromagnetic waves
- Conservation of nutrients 4.
- 5. Junk foods
- Advantages of
 - Germination
 - Fermentation
 - Fortification

Chapter 3 – NUTRITION FOR SELF AND FAMILY

- Importance of Meal Planning
- 2. Principles of Meal Planning
- 3. Factors affecting Meal Planning
- 4. Expand RDA, ICMR, RDI
- Reference Man, Reference Woman 5.
- 6. RDA for:
 - Adult Man moderate work . BOO.S 6600

- Adult Woman moderate work b.
- C. Pregnant Woman
- Lactating Woman 0-6 months d.
- Factors affecting RDA

Chapter 4 – Diet Therapy

- Definition of Diet Therapy.
- General Objectives of diet therapy
- Modification of Therapeutic diets.
 - Qualitative modification (without examples)
 - Quantitative modification (without examples)
- 4. Diet in Common diseases
 - Causes and Types of Diarrhoea
 - Types of Fever
- 5. Diet in Nutrition Related Problems
 - a. Obesity - Causes
 - Anaemia Classification b.
 - i) Morphological classification
 - Aetiological classification ii)

Chapter 5 – FOOD PRESERVATION

- Definition of Food spoilage and Food Preservation
- Meaning of Food spoilage
- 3. Causes of Food spoilage
- 4. Principles of Food preservation
- 5. Methods of Food preservation
 - Bacteriostatic methods
 - Bactericidal methods b.

Chapter 6 – INTRODUCTION TO FIBRE SCIENCE

- Classification offibres
- 2. Fibre Identification
- 3. Properties of Naturalfibres.

Chapter 7 – YARN – PRODUCTION AND PROPERTIES

- 1. Types of Yarns
- 2. Conventional spinning
- 3. Chemical spinning
- Yarn properties

Chapter 8 – FABRIC CONSTRUCTION

- Parts of looms
- 2. Characteristics of woven fabrics
- 3. Basic weaves
 - Plain weave
 - Twill weave
 - Satin weave
- Classification of Non-woven fabrics
 - **Felts**
 - Bonded fabrics
- Bonded fabrics
 Other methods of Fabric Construction 0.5 6 6 6 6 6

- Braided fabrics
- Laces
- Nets
- Stitch bonded fabrics

Chapter 9 – FABRIC FINISHING

- 1. Importance of finishes
- Classification of Finishes
- 3. Common fabric finishes
 - Bleaching
 - Mercerization
 - Singeing
 - Parchmentization
 - Sizing
 - Calendaring

Chapter 10 – FINISHING WITH COLOUR

- 1. Stages of Dyeing
- 2. Designing using Dyeing and Printing

Chapter 11 – INTRODUCTION TO EXTENSION EDUCATION

- 1. Definition Extension education
- 2. Objectives of Extension education
- 3. Principles of Extension education
- 4. Difference between formal and extension education
- 5. Extension teaching methods
- 6. Characteristics of Home science extension

Chapter 12 – COMMUNICATION

- 1. Objectives of communication
- 2. Elements of communication
- 3. Types of communication
- 4. Cone of experience

PSYCHOLOGY

Unit	Name of unit	
no.		Focus area
		rocus area
1	Variations in Psychological Attributes	 Define Intelligence Theories of intelligence Theory of primary mental abilities Triarchic theory of intelligence Theory of multiple intelligence Assessment of Intelligence Concept of MA, CA and IQ IQ Calculation Intellectual giftedness Types of intelligence tests Individual or group tests Verbal, Nonverbal or Performance tests Culture fair or culture biased tests
	Self and Personality	 Intelligence in the Indian tradition Type approaches to Personality
		 Sheldon, Jung, Friedman and Rosenman Trait approaches to Personality Allport's Trait theory. Eysenck's personality theory Psychodynamic approach Levels of Consciousness Structure of personality: Id, Ego, Superego. Assessment of personality Self report measures: MMPI, EPQ Projective techniques: TAT, Rorschach inkblot test, Draw-a- person test Behavioural Analysis: Interview, Observation
3	Meeting life challenges	 Stress, Eustress, Distress Types of stress Physical and Environmental stress Psychological stress Social stress Sources of stress: Life events, Flassles, Traumatic events General Adaptation Syndrome Psychoneuroimmunology Stress management techniques Exercise Biofeedback Relaxation techniques Meditation procedures Creative visualisation

4	Psychological	Classification of Psychological disorders
-	disorders	Major Psychological disorders
	districts	Anxiety disorders
		Obsessive-Compulsive and related disorders
		Post Traumatic stress disorder(PTSO)
		Schizophrenia and symptoms of Schizophrenia
		Neuro developmental disorders
		Feeding and eating disorders
5	Therapeutic	Behavioural Techniques
	Approaches	> Aversive Conditioning
		> Token Economy- Systematic desensitisation
		Cognitive Therapy
		Rational Emotive Therapy
		Cognitive Behaviour Therapy (CBT)
		Becks's Cognitive Therapy
		Ethics in Psychotherapy
6	Attitude and social	Nature and components of Attitude
	cognition	➤ The A-B-C components of Attitude
		Affective, Behavioural and Cognitive
		components
7	Social influence and	• Types of groups
	group process	Primary and secondary groups
		Formal and informal groups
		► Ingroup and Out Groups
		Why do people join groups?
		Security, status, self-esteem, goal achievement,
		satisfaction of one's psychological and social
	Davahalaar and Life	needs, provide knowledge and information
8	Psychology and Life	Promoting pro-environmental behaviour
	D 1 1	Impact of Television on Behaviour
9	Developing	Observational skills
	Psychological Skills	Naturalistic Observation
		Participant Observation
		Advantages and disadvantages of observation

ANTHROPOLOGY

Unit 1 Anthropological Research Methods and Techniques

Scientific Research in Anthropology

- Science and Scientific Method
- Characteristic of Scientific Method
- Steps of Scientific Method
- Subjectivity and Objectivity

Method, Methodology, Approach and Perspectives

- Approaches of Anthropological Research
- Anthropological Data

Methods in Anthropology

- Observation as a method
- Case Study method
- Geneological Method
- Survey Method

Tools and Techniques of Anthropological Research

- Questionnaire
- Interview
- Schedule

Unit 2 Anthropological Theories of Culture

Cultural Evolutionism

- Classical Evolutionism-British, American And German
- Neo Evolutionism- British and American

Diffusionism

British, German and American

Functionalism

StructuralFunctionalim

Structuralism

Culture and Personality School of Thought

Unit 3 Civilisational and Village Studies in Anthropology

Civilisational School in Anthropology

- Folk Society
- Peasant Society
- Folk Urban Continiuum

Tradition

- Great Tradition and Little Tradition
- Universalisation and Parochialisation

Dynamics of Village life

- Culture of Poverty
- Rural Cosmopolitan
- Dominant Caste
- Sanskritisation
- Westernisation
- Sacred Complex
 Jajmani System

Unit 4 Medical Anthropology

Meaning and scope of Medical Anthropology

- Concept of Health illness and disease
- Relation Among Culture Health and Disease

Medical Pluralism in India

- Traditional and Modern Medical Systems
- Ethnomedicine

Unit 5 Ecological Anthropology

Meaning and scope of Ecological Anthropology

- Population ecology, Cultural ecology and Ethno ecology
- Environmental Determinism and Environmental Possibilism.

Adaptation

- Types of Adaptation
- Stages of Eco -cultural Adaptation
- Environmental movements

Unit 8 Tribes and Marginalised people

- Concept of Tribe
- Scheduled tribe
- Features of Tribal life
- PVTGs
- Tribes of kerala
- Concept of Scheduled Caste