



Annual Planner 2021-22

CLASS - XI COMMERCE

Subject - ACCOUNTANCY						
Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment
MAY	15	1.INTRODUCTION TO ACCOUNTING	ACCOUNTING - CONCEPT, OBJECTIVE, ADVANTAGE AND LIMITATION, USERS AND QUALITATIVE CHARACTERISTICS	5	T.S. GREWAL	
		2. BASIC ACCOUNTING TERMS		5		
		3.THEORY BASE OF ACCOUNTING	BUSINESS ENTITY, MONEY MEASUREMENT, ACCOUNTING PERIOD , DUAL ASPECT, FULL DISCLOSURE, CONSISTENCY, CONSERVATISM ETC.	5		
JUNE	12	4. BASES OF ACCOUNTING	CASH BASES AND ACCRUAL BASES	4		
		5. ACCOUNTING EQUATION	ACCOUNTING EQUATION APPROACH	8		
JULY	25	6. RULES OF DEBIT AND CREDIT	TRADITIONAL AND MODERN	5		
		7. ORIGIN OF TRANSACTIONS - SOURCE DOCUMENTS AND PREPARATION OF VOUCHER	PREPARATION OF VOUCHERS	5		



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		8. JOURNAL	RECORDING OF TRANSACTIONS : JOURNAL	15		
AUGUST	23	9. LEDGER 10. SPECIAL PURPOSE BOOK - CASH BOOK	TYPES OF CASH BOOK : SIMPLE, CASH BOOK WITH BANK COLUMN AND PETTY CASH BOOK	8 15		PRE MID TERM
SEPTEMBER	24	11. SPECIAL PURPOSE BOOKS - OTHER BOOKS 13. TRIAL BALANCE	PURCHASE BOOK, SALES BOOK, PURCHASE RETURN , SALES RETURN BOOK.	14 10		
OCTOBER	19	12. BANK RECONCILIATION STATEMENT 14. DEPRECIATION 15. PROVISION AND RESERVE	NEED AND PREPARATION : BRS METHODS OF DEPRECIATION : STRAIGHT LINE METHOD WRITTEN DOWN VALUE METHOD	8 11		MID TERM
NOVEMBER	20	16. ACCOUNTING FOR BILLS OF EXCHANGE	ACCOUNTING TREATMENT - BILLS OF EXCHANGE	10		



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		17. RECTIFICATION OF ERRORS	TYPES OF ERRORS - OMISSION, COMMISSION, PRINCIPLES, AND COMPENSATING.	10		
DECEMBER	19	18. FINANCIAL STATEMENT OF SOLE PROPRIETORSHIP	TRADING , PROFIT AND LOSS ACCOUNT , BALANCE SHEET	9		POST MID TERM
		19. ADJUSTMENT IN PREPARATION OF FINANCIAL STATEMENT	PREPARATION OF FINAL ACCOUNT WITH ADJUSTMENTS	10		
JANUARY	23	20. ACCOUNTS FROM INCOMPLETE RECORDS - SINGLE ENTRY SYSTEM	ASCERTAINMENT OF PROFIT / LOSS BY STATEMENT OF AFFAIRS METHOD.	10		
		REVISION		13		
FEBRUARY	23	REVISION				
MARCH	23					FINAL EXAM
SUBJECT - BUSINESS STUDIES						
MAY	15	1. NATURE AND PURPOSE OF BUSINESS	MEANING , CONCEPT - BUSINESS , CLASSIFICATION OF BUSINESS ACTIVITY - INDUSTRY AND COMMERCE	10	NCERT, SANDEEP GARG , POONAM GANDHI	
		2. FORMS OF BUSINESS ORGANISATION	SOLE PROPRIETORSHIP , PARTNERSHIP	5		



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JUNE	12	2. FORMS OF BUSINESS ORGANISATION 3. PUBLIC , PRIVATE AND GLOBAL ENTERPRISES	HUF , COOPERATIVE SOCIETY , COMPANY FORMS OF PUBLIC ENTERPRISES	5 7		
JULY	25	4. BUSINESS SERVICES 5. EMERGING MODE OF BUSINESS	BANKING , INSURANCE - LIFE, FIRE, MARINE E- BUSINESS - ADVANTAGES , LIMITATION	10 15		PRE MID TERM
AUGUST	23	6. SOCIAL RESPONSIBILITY OF BUSINESS 7. SOURCES OF BUSINESS FINANCE	SOCIAL RESPONSIBILITY OF BUSINESS TOWARDS - VARIOUS INTEREST GROUPS SOURCES - SHARE AND DEBENTURES	10 13		
SEPTEMBER	23	8. SMALL BUSINESS \ (MCQ AND CASE STUDIES PRACTICE)	MEANING , ADVANTAGES, DISADVANTAGES OF SMALL BUSINESS,	23		MID TERM
OCTOBER	24	9. INTERNAL TRADE	WHOLESALE AND RETAIL TRADE	24		
NOVEMBER	20	10. INTERNATIONAL BUSINESS	MEANING, ADVANTAGES, LIMITATION, COMPARISON BETWEEN INTERNAL BUSINESS AND INTERNATIONAL BUSINESS	20		



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DECEMBER	19	REVISION				POST MID TERM
JANUARY	23	REVISION				
FEBRUARY	23	REVISION				
MARCH	23	-				FINAL EXAM
SUBJECT - ECONOMICS						
MAY	10 [3 periods]	Chapter 1 Introduction - Statistics	Why Economics? Consumption, Production, and Distribution Statistics in economics What is statistics? Conclusion	3	Sandeep Garg NCERT textbooks Self prepared PowerPoint Presentation Sample Papers	Weekly quizzes, assignments, internal tests and exams.
JUNE	12	Chapter 1 Introduction - Statistics	Why Economics? Consumption, Production, and Distribution Statistics in economics What is statistics? Conclusion	4		
		Unit 1 Introduction - Microeconomics	Study of Economics is divided into two branches:(a) Micro economics (b) Macro economics Economy Economic problem Central Problems of an Economy Opportunity Cost	8		



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			Production possibility frontier or production possibility curve			
JULY	25	Unit 2 Consumer's Equilibrium	<p>Utility – Utility is a term used by economists to explain the quantification of “utilization” that a buyer obtains from any good bought. The utility may compute how much one enjoys a theatre or the perception of safety one gets from purchasing a blockade. blockade</p> <p>Marginal utility – Marginal utility is the additional contentment a buyer gains from purchasing one more unit of a good or service. Marginal utility is a significant economic topic because economists use it to regulate how much of a commodity a consumer will purchase.</p>	25		
AUGUST	23	Unit 3 Production and Costs	<p>Production and Costs gives a brief presentation of the concept. This can be termed as – ‘Theory of production</p>	12		



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		Chapter 2 - Collection Of Data	<p>– Cost Theory’ as well. In the Cost Theory, there are 2 types of costs analogous to production – Fixed Cost and Variable Cost.</p> <p>Fixed Cost – Fixed costs are costs that do not differ with different degrees of production and fixed costs survive even if output is zero.</p> <p>Variable Cost – Variable Costs are costs that differ with the degree of output</p> <p>Introduction What are the sources of data? How do we collect the data? Preparation of Instrument Mode of Data Collection Pilot Survey Census or Complete Enumeration Population and Sample Random Sampling Non-Random Sampling Sampling and non-sampling errors</p>	7		
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		Chapter 3 - Organisation of Data	Sampling Errors Non Sampling Errors Census of India and NSSO. Introduction Raw Data Classification of data Variables: Continuous and discrete What is a frequency distribution? How to prepare a Frequency Distribution? Should we have equal or unequal sized class intervals? How many classes should we have? How should we determine the class limits? What should be the size of each class?	4		
SEPTEMBER	24	Chapter 3 - Organisation of Data		4		
		Chapter 4 - Presentation of Data	Introduction Textual Presentation Of Data Qualitative classification Quantitative classification Tabular Presentation of Data Temporal classification	8		
		REVISION				



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			Spatial classification Tabulation of data and parts of a table Geometric Diagram Pie Diagram Frequency Diagram			
OCTOBER	19	Chapter 5 - Measures of Central Tendency	Introduction Arithmetic Mean How Arithmetic Mean is Calculated Calculation of arithmetic mean for Grouped data Discrete Series Continuous Series Weighted Arithmetic Mean Median Quartiles Percentiles Mode Computation of Mode Conclusion	7		
		Unit 4 The Theory Of The Firm Under Perfect Competition	Perfect Competition – Perfect competition explains a market structure where competition is at its inordinate possible degree. To make it more concise, a market which displays the following characteristic	12		



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			<p>features in its composition is said to show an accurate competition.</p> <p>Characteristic features of perfect competition –</p> <p>Large number of buyers and sellers</p> <p>Homogenous or equivalent product</p> <p>Liberty of entry and exit</p> <p>Apt mobility</p> <p>Great knowledge.</p>			
NOVEMBER	20	Unit 5 Market Equilibrium	<p>Market Equilibrium – It is a market situation where the demand for the commodity is equivalent to its supply.</p> <p>Equilibrium price – It corresponds to the quantity between the market demand and market supply of a good.</p> <p>Equilibrium quality – It corresponds to the equilibrium price in the marketplace.</p>	10		
		Chapter 6 - Measures of Dispersion	<p>Introduction</p> <p>Measures based upon spread of values</p> <p>Range</p>	8		



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		Chapter 7 - Correlation	Quartile Deviation Measures of dispersion from average Mean Deviation Standard Deviation Absolute And Relative Measures Of Dispersion Lorenz Curve Conclusion Introduction What Does Correlation Measure? Types of relationship Types of Correlation Scatter Diagram Techniques for measuring correlation Karl Pearson's Coefficient of Correlation Spearman's rank correlation Calculation of Rank Correlation Coefficient	2		
DECEMBER	19	Chapter 7 - Correlation Chapter 8 - Index Number	Introduction What Is An Index Number? Construction of an index number The Aggregative Method	6 7		



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		Unit 6 Non Competitive Markets	<p>Method of Averaging relatives Consumer price index Consumer Price Index Number Wholesale Price Index Index of Industrial production Human Development Index Sensex Index in economics Conclusion</p> <p>Market – A market refers to a procedure or a technique that enables correspondence between the buyers and sellers for the sale and purchase of goods and services. Monopoly – It is a type of market where there exists a single seller of a product with no close competitors. Oligopoly Monopolistic</p>	6		
JANUARY	23	Revision				
FEBRUARY	23	Revision				
MARCH	23	Revision				



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SUBJECT-ENGLISH CORE						
Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment
APRIL	17 [2 Days for XI]	1-The portrait of a Lady[Prose]	Characterization Extract and Short Based questions.	2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	Weekly Quiz, Assignments, Oral and written assignments in form of Worksheets.
MAY	10	1-The portrait of a Lady [Prose] 1-A Photograph [Poem] Comprehension Exercises	Difficult words Poetic devices & Reference to Context	4 4 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	<u>PRE MID TERM</u> 1-The portrait of a Lady [Prose] 1-A Photograph [Poem] 2-The Silk Road 1-The Summer of Beautiful White Horse
JUNE	12	2-The Silk Road Note Making Comprehension Passage Speech Writing	Difficult words Formats Examples of Passage and Speech	7 3 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	Comprehension and Grammar Exercises.
JULY	25	1-The Summer of Beautiful White Horse 3-We Are Not Afraid to Die 4-Discovering Tut-The Saga Continues 2.The Laburnum Top Gap filling, Rearrange the words and Editing and Omission.		5 6 5 3 5	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	



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AUGUST	23	6-The Ailing Planet 2.The Address 3.Ranga's Marriage 3.The Voice of The Rain Formal Letter writing Debate writing		5 5 5 4 2 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	
SEPTEMBER	24	4-Albert Einstein At School 6-The Adventure REVISION OF MID TERM	Note Making Grammar Exercises	5 5 14	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	<u>MID TERM EXAM</u> Syllabus completed till September
OCTOBER	19	5-A Mother's Day 6-Birth Choose the correct form of Verb	Grammar exercises based on modals and verbs	6 7 6	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	<u>POST MID TERM</u> 5-A Mother's Day 6-Birth 6-The Adventure Choose the correct form of Verb Speech and Article Writing
NOVEMBER	20	8-The Tale of Melon City 7-The Browning Version Debate and Speech Writing Grammar	Poetic Devices Reference to Context Short, ,Long and Extract based questions.	7 7 4 2	Hornbill and Snapshot [NCERT Books] Online resources Reference Books Video links	
DECEMBER	19	7-The Browning Version 5-Father to Son Revision of Grammar		7 6 6	Hornbill and Snapshot [NCERT Books] Online resources Reference Books	ANNUAL EXAM ENTIRE SYLLABUS



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					Video links	
JANUARY	23	REVISION	-----	23		
FEBRUARY	23	REVISION	-----	23		
MARCH	23	ANNUAL EXAMINATION	-----	-		

Subject - PE

Month	No. of working days	Name of the chapter	Topic / Sub topic	No of periods	TL resources	Mode of assessment
JUNE	12	1.Changing Trends & Career in Physical Education 2.Olympic Value Education	Meaning & definition of Physical Education Aims & Objectives of Physical Education Career Options in Physical Education Competitions in various sports at National and International Level Khelo India Program Olympics, Paralympics and Special Olympics	08 04	Lecture Method / Activity Based	Weekly Quiz, Question answer based on topic, Assignments Unit Test-1



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JULY	25	2.Olympic Value Education 3.Physical Fitness, Wellness & Lifestyle	Olympic Symbols, Ideals, Objectives&Values of Olympism International Olympic Committee Indian Olympic Association Meaning& Importance of Physical Fitness, Wellness & Lifestyle Components of Physical Fitness and Wellness Components of Health related fitness	05 09	Lecture Method / Activity Based	Pre Mid term Weekly Quiz, Question answer based on topic, Assignments
AUGUST	23	4.Physical Education & Sports for CWSN (Children with Special Needs- Divyang)	Aims& objectives of Adaptive Physical Education Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics Deaflympics) Concept of Inclusion, its need and Implementation Role of various professionals for children	9	Lecture Method / Activity Based	Weekly Quiz, Question answer based on topic, Assignments HALF YEARLY EXAMINATION



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		5.Yoga	with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist& Special Educator) Meaning & Importance of Yoga Elements of Yoga Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas Yoga for concentration& related Asanas [Sukhasana: Tadasana; Padmasana& Shashankasand, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose)] Relaxation Techniques for improving concentration-Yog-nidra Leadership Qualities & Role of a Leader Creating leaders through Physical Education Meaning, objectives & types of Adventure Sports	09		
		6.Physical Activity &Leadership Training		05		



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			(Rock Climbing, Trekking, River Rafting, Mountaineering, Surfing and Para Gliding) Safety measures to prevent Sports Injuries			
SEPTEMBER	24	7.Test, Measurement & Evaluation 8.Fundamentals of Anatomy &Physiology &Kinesiology in Sports	Define Test, Measurement & Evaluation Importance of Test, Measurement & Evaluation in Sports Calculation of BMI & Waist- Hip Ratio Somato Types (Endomorphy, Mesomorphy & Ectomorphy) Measurement of Health related fitness Definition, Importance of Anatomy, Physiology & Kinesiology Function of Skeleton System, Classification of Bones& Types of Joints Properties and functions of Muscles Function & Structure of Respiratory System and Circulatory System	08 10	Lecture Method / Activity Based	Weekly Quiz,Question answer based on topic, Assignments



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DECEMBER	19	REVISION				
JANUARY	23	REVISION				
FEBRUARY	23	REVISION				Annual examination
Hindi						
MAY	09	(गद्य)1.नमक का दारोगा	भाषा की चित्रात्मकता, लोकोक्तियाँ और मुहावरे, लेखक के मनोभावों को समझना	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान, अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न, लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(काव्य)1.हम तौ एक एक करि जाना ---	पदों का गायन, भाव-सौंदर्य तथा शिल्प-सौंदर्य	4		



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JUNE	11	(गद्य)2-मियाँ नसीरुद्दीन	विषयवस्तु का बोध तथा व्याख्या, शब्दों का प्रसंगानुकूल अर्थ समझना	4	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(काव्य)2- मेरे तो गिरधर गोपाल ---	पदों का गायन, भाव- सौंदर्य तथा शिल्प- सौंदर्य	3		
		(पूरक पाठ्य-पुस्तक) वितान 1- भारतीय गायिकाओं में बेजोड़: लता मंगेशकर	प्रत्यास्मरण, विषयवस्तु का बोध एवं व्याख्या, लेखक के मनोभावों को समझना	4		



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JULY	25	(गद्य) 3- अपू के साथ ढाई साल	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	6	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(जनसंचार माध्यम और लेखन) 1.जनसंचार माध्यम -संचार की परिभाषा तथा प्रकार	आलोचनात्मक चिंतन, तार्किकता, मूल्यांकन, विश्लेषण	7		



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		(गद्य) 4- विदाई संभाषण	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	6		
		(जनसंचार माध्यम और लेखन) 2. जनसंचार की विशेषताएं और कार्य	तार्किकता, आलोचनात्मक चिंतन, अभिव्यक्ति में मौलिकता	6		



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AUGUST	23	<p>(काव्य) 4. घर की याद</p> <p>(काव्य) 5- चंपा काले काले अक्षर नहीं चीन्हती</p> <p>(वितान) 2- राजस्थान की रजत बूँदें</p> <p>(जनसंचार माध्यम और लेखन)</p> <p>3. भारत में जनसंचार माध्यमों का विकास</p> <p>(गद्य) 5- गलता लोहा</p>	<p>कविता पाठ, भाव-सौंदर्य तथा शिल्प- सौंदर्य, अर्थ ग्रहण, व्याख्या</p> <p>विषयवस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ समझना, सृजनात्मकता।</p> <p>तार्किकता, आलोचनात्मक, अभिव्यक्ति में मौलिकता।</p>	<p>5</p> <p>4</p> <p>5</p>	<p>एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान, अभिव्यक्ति और माध्यम</p>	<p>मौखिक प्रश्न, लिखित अभ्यास- पत्र, बहुविकल्पीय प्रश्न, वीकली क्विज़।</p>
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SEPTEMBER	25	(काव्य) 6- गज़ल	लेखक के मनोभावों को समझना, शब्दों का प्रसंगानुकूल अर्थ समझना।	5		
			गायन, भावसौंदर्य तथा शिल्प सौंदर्य, उर्दू शब्दावली	4		
			विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	4		
			आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्ति में मौलिकता।			
		(गद्य) 6- स्पीति में बारिश				
		4. जनसंचार माध्यमों का प्रभाव				

मौखिक प्रश्न ,
लिखित
अभ्यास-पत्र
बहुविकल्पीय प्रश्न
वीकली क्विज़

एन सी ई आर टी
पाठ्यपुस्तक
आरोह तथा
वितान ,
अभिव्यक्ति और
माध्यम
यू-ट्यूब
वीडियोज़



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		पुनरावृत्ति कार्य		4		
				4		
				13		



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OCTOBER	17	(गद्य)7. रजनी	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(काव्य)7. हे भूख! मत मचल ---	भावार्थ, सौंदर्य बोध, अर्थ गाम्भीर्य	4		
		(पत्रकारिता के विविध आयाम) 1.पत्रकारिता , समाचार तथा तत्व	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्ति में मौलिकता	5		



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		2. संपादन तथा पत्रकारिता के अन्य आयाम	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्ति में मौलिकता	3		
NOVEMBER	20	गद्य)8- जामुन का पेड़	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	5	एन सी ई आर टी पाठ्यपुस्तक आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	मौखिक प्रश्न , लिखित अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(काव्य)8- सबसे खतरनाक	अर्थ गाम्भीर्य, भाव सौंदर्य तथा शिल्प सौंदर्य	5		



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		(गद्य) 9- भारत माता	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता			
		3. पत्रकारिता के प्रमुख प्रकार	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्ति में मौलिकता	5		
DECEMBER	19	(काव्य)9. आओ मिलकर बचाएँ	कविता पाठ, सौंदर्यबोध , अर्थ गाम्भीर्य, मौलिकता	5	एन सी ई आर टी पाठ्यपुस्तक	मौखिक प्रश्न , लिखित



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					आरोह तथा वितान , अभिव्यक्ति और माध्यम यू-ट्यूब वीडियोज़	अभ्यास-पत्र बहुविकल्पीय प्रश्न वीकली क्विज़
		(वितान)3- आलो आँधारि	विषय वस्तु का बोध एवं व्याख्या, प्रसंगानुकूल अर्थ, लेखिका के मनोभावों को समझना	6		
		(गद्य)10. आत्मा का ताप	विषय-वस्तु का बोध एवं व्याख्या, शब्दों का प्रसंगानुकूल अर्थ, तार्किकता	4		



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		4. समाचार माध्यमों में मौजूदा रुझान	आलोचनात्मक चिंतन, तार्किकता, विश्लेषण, अभिव्यक्ति में मौलिकता	4		
JANUARY FEBRUARY MARCH		पुनरावृत्ति कार्य पुनरावृत्ति कार्य पुनरावृत्ति कार्य वार्षिक परीक्षा				
Subject – Informatics Practices						
April	17	Chapter 1 Introduction to Computer System Chapter 2 Python Fundamentals Practical based on Chapter 2 Python Fundamentals	Introduction to computers and computing: evolution of computing devices, components of a computer system and their interconnections, Input/Output devices. Computer Memory: Units of memory, types of memory – primary and secondary, data deletion, its recovery and related security concerns.	10 5 2	Informatics Practices By Sumita Arora and Self Prepared Notes	



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			Software: purpose and types – system and application software, generic and specific purpose software. Basics of Python programming, Python interpreter - interactive and script mode, the structure of a program, indentation, identifiers, keywords, constants, variables, types of operators, precedence of operators			
May	17	Practical based on Chapter 2 Python Fundamentals Chapter 3 Data Handling Practical based on Chapter 3 Data Handling	data types, mutable and immutable data types, statements, expressions, evaluation of expressions, comments, input and output statements, data type conversion	3 7 7	Informatics Practices By Sumita Arora and Self Prepared Notes	
June	11	Chapter 4 Flow of Control Practical based on Chapter 4 Flow of Control	control statements: if-else, for loop	7 4	Informatics Practices By Sumita Arora and Self Prepared Notes	
July	25	Practical based on Chapter 4 Flow of Control Chapter 5 List Manipulation	Lists: list operations - creating, initializing, traversing and manipulating lists, list methods and	3 8 7	Informatics Practices By Sumita Arora and	PERIODIC TEST 7



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		Practical based on Chapter 5 List Manipulation	built-in functions.: len(), list(), append(), extend(), insert(), count(), find(), remove(), pop(), reverse(), sort(), sorted(), min(), max(), sum()		Self Prepared Notes	
August	23	Chapter 6 Dictionaries Practical based on Chapter 6 Dictionaries	Dictionary: concept of key-value pair, creating, initializing, traversing, updating and deleting elements, dictionary methods and built-in functions: len(), dict(), keys(), values(), items(), get(), update(), clear(), del()	8 8	Informatics Practices By Sumita Arora and Self Prepared Notes	REVISION FOR HALF YEARLY EXAM 7
Sept	25	Chapter 7 Data Handling using NumPy		9	Informatics Practices By Sumita Arora and Self Prepared Notes	HALF YEARLY EXAM 16
Oct	17	Chapter 7 Data Handling using NumPy Practical based on Chapter 7 Data Handling using NumPy	Data and its purpose, importance of data, structured and unstructured data, data processing cycle, basic statistical methods for understanding data - mean, median, mode, standard deviation and variance. Introduction to NumPy library, NumPy arrays and	10 7	Informatics Practices By Sumita Arora and Self Prepared Notes	



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			their advantage, NumPy attributes			
Nov	20	Chapter 7 Data Handling using NumPy Practical based on Chapter 7 Data Handling using NumPy	creation of NumPy arrays; from lists using np.array(), np.zeros(), np.ones(), np.arange(), indexing, slicing, and iteration; concatenating and splitting array; Arithmetic operations on one dimensional and two dimensional arrays. Calculating max, min, count, sum, mean, median, mode, standard deviation, variance on NumPy arrays.	13 7	Informatics Practices By Sumita Arora and Self Prepared Notes	
Dec	19	Chapter 8 Database Concepts Practical based on Chapter 8 Database Concepts	Database Concepts: Introduction to database concepts and its need, Database Management System. Relational data model: concept of attribute, domain, tuple, relation, candidate key, primary key, alternate key, foreign key. Structured Query Language: Data Definition Language, Data Query Language and Data Manipulation	7 5	Informatics Practices By Sumita Arora and Self Prepared Notes	PERIODIC TEST 7



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			<p>Language, Introduction to MySQL: Creating a database, using database, showing tables using MySQL, Data Types : char, varchar, int, float, date</p> <p>Data Definition Commands: CREATE, DROP, ALTER (Add and Remove primary key, attribute).</p> <p>Data Query Commands: SELECT-FROM- WHERE, LIKE, BETWEEN, IN, ORDER BY, using arithmetic, logical, relational operators and NULL values in queries, Distinct clause</p> <p>Data Manipulation Commands: INSERT, UPDATE, DELETE.</p>			
Jan	25	<p>Chapter 9 Structured Query Language</p> <p>Practical based on Chapter 9 Structured Query Language</p> <p>Chapter 10 Emerging Trends</p>	<p>Artificial Intelligence, Machine Learning, Natural Language Processing, Immersive experience (AR, VR), Robotics, Big data and its characteristics, Internet of Things (IoT), Sensors, Smart cities, Cloud Computing and Cloud</p>	12 6 7	Informatics Practices By Sumita Arora	



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			Services (SaaS, IaaS, PaaS); Grid Computing, Block chain technology.			
Feb	24	REVISION FOR ANNUAL EXAM		24		
March	24	ANNUAL EXAMS		24		
Total	247					