



PRE BOARD 1 – NOVEMBER – 2020-21
SYLLABUS SHEET – CLASS XII – COMMERCE

ENGLISH	<p style="text-align: center;">READING COMPREHENSION (Unseen Passage)</p> <p>WRITING</p> <ul style="list-style-type: none">• Advertisements and notices• Formal and informal invitation and replies• Letters to the editor• Application for a job• Article writing• Report writing <p>LITERATURE</p> <ul style="list-style-type: none">• Flamingo• The Last Lesson• Lost Spring• Deep Water• The Rat Trap• Indigo• My Mother at Sixty-Six• An Elementary School Classroom in a Slum• Keeping Quiet• A Thing of Beauty• Aunt Jennifer’s Tigers• Vistas• The Third Level• The Enemy• Should Wizard Hit Mommy• On the Face of It• Evans Tries an O Level
ACCOUNTS	<ol style="list-style-type: none">1. Fundamentals of Partnership2. Goodwill3. Change in Profit Sharing Ratio4. Admission of Partner5. Retirement of Partner6. Death of Partner7. Dissolution of Partnership8. Accounting for Shares (except ‘Consideration other than cash’)9. Financial Statements of Company10. Tools of Financial Statement Analysis-Comparative and Common-Size11. Ratio Analysis

ECONOMICS	<p><u>MACRO ECONOMICS:</u></p> <p>Unit-1: National Income and Related Aggregates Unit-3: Determination of Income and Employment Unit-4: Government Budget & the Economy Unit-5: Balance of Payments and Foreign exchange.</p> <p><u>INDIAN ECONOMIC DEVELOPMENT:</u></p> <p>Unit-6: Development experience and Economic Reforms Unit-7: Current Challenges (Rural Development, Human Capital Formation, Employment & Infrastructure) Unit-8: Development Experience of India, Pakistan & China.</p>
BUSINESS STUDIES	<p>Unit 1 – Nature and Significance of Management Unit 2 – Principles of Management Unit 3 – Business Environment Unit 4 – Planning Unit 5- Organizing Unit 6- Staffing Unit 7- Directing Unit 8 – Controlling Unit 11 – Marketing Management</p>
MARKETING	<p>Unit 1. Product Mix Unit 2. Price Mix Unit 3. Place Mix Unit 4. Promotion Mix Unit 5. Emerging Trends in Marketing Employability Skills- ICT</p>
MATH	<p>Matrix and determinants Application of differentiation Integration Application of integration Differential equations 3D geometry Linear programming Probability</p>

COMPUTER SCIENCE

Unit II: Computer Networks

- Evolution of Networking: ARPANET, Internet, Interspace Different ways of sending data across the network with reference to switching techniques (Circuit and Packet switching).
- Data Communication terminologies: Concept of Channel, Bandwidth (Hz, KHz, MHz) and Data transfer rate (bps, Kbps, Mbps, Gbps, Tbps).
- Transmission media: Twisted pair cable, coaxial cable, optical fiber, infrared, radio link, microwave link and satellite link.
- Network devices: Modem, RJ45 connector, Ethernet Card, Router, Switch, Gateway, WiFi card.
- Network Topologies and types: Bus, Star, Tree, PAN, LAN, WAN, MAN.
- Network Protocol: TCP/IP, File Transfer Protocol (FTP), PPP, HTTP, SMTP, POP3, Remote Login (Telnet) and Internet, Wireless / Mobile Communication protocol such as GSM, GPRS and WLL.
- Mobile Telecommunication Technologies: 1G, 2G, 3G, 4G and 5G; Mobile processors; Electronic mail protocols such as SMTP, POP3, Protocols for Chat and Video Conferencing: VoIP, Wireless technologies such as Wi-Fi and WiMax
- Network Security Concepts
Threats and prevention from Viruses, Worms, Trojan horse, Spams
Use of Cookies, Protection using Firewall, https,
India IT Act, Cyber Law, Cyber Crimes, IPR issues, hacking.
- Introduction To Web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML); Hyper Text Transfer Protocol (HTTP); Domain Names; URL; Website, Web browser, Web

Unit III: Database Management

Database Concepts: Introduction to database concepts and its need.

Relational data model: Concept of domain, relation, tuple, attribute, degree, cardinality, key, primary key, candidate key, alternate key and foreign key;

Structured Query Language:

General Concepts: Advantages of using SQL, Data Definition Language and Data Manipulation Language;

Data Types: number / decimal, character / varchar / varchar2, date;

SQL commands **covered in class XI (2019-20)**

SELECT, DISTINCT, FROM, WHERE, IN, BETWEEN, LIKE, NULL / IS NULL, ORDER BY, GROUP BY, HAVING;

SQL functions: SUM (), AVG (), COUNT (), MAX () and MIN ();

Joins: equi-join and natural join

Interface of Python with an SQL database

- Connecting SQL with Python
- Creating Database connectivity Applications
- Performing Insert, Update, Delete queries
- Display data by using fetchone(), fetchall(), rowcount

- **Data-structures: Lists as covered in Class XI, Stacks – Push, Pop using a list.**

PSYCHOLOGY

Unit 2- Self and personality
Unit 3- Meeting Life challenges
Unit 4-Psychological Disorders

	Unit 5- Therapeutic Approaches Unit 6- Attitude and Social Cognition Unit 7-Social Influence and group processes
PHYSICAL EDUCATION (optional)	<u>Unit I Planning in Sports</u> <u>Unit II Sports & Nutrition</u> <u>Unit IV Physical Education & Sports for CWSN (Children With Special Needs - Divyang)</u> <u>Unit V Children & Women in Sports</u> <u>Unit IX Psychology & Sports</u> <u>Unit VII Physiology and injuries in sports</u> <u>Unit VIII Biomechanics & Sports</u> <u>Unit VI Test & Measurement in Sports</u> <u>Unit X Training in Sports</u> <u>Unit III Yoga & Lifestyle</u>
PHYSICAL EDUCATION (additional)	<u>Unit I Planning in Sports</u> <u>Unit IV Physical Education & Sports for CWSN (Children With Special Needs - Divyang)</u> <u>Unit V Children & Women in Sports</u> <u>Unit IX Psychology & Sports</u> <u>Unit VII Physiology and injuries in sports</u> <u>Unit VIII Biomechanics & Sports</u> <u>Unit VI Test & Measurement in Sports</u> <u>Unit X Training in Sports</u>



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PHYSICS	<ol style="list-style-type: none">1. Chapter–2: Electrostatic Potential and Capacitance2. Chapter-4: Moving Charges and Magnetism3. Chapter–7: Alternating Current4. Chapter–8: Electromagnetic Waves5. Chapter–9: Ray Optics6. Chapter–10: Wave Optics7. Chapter–12: Atoms8. Chapter–14: Semiconductors
CHEMISTRY	<ol style="list-style-type: none">1. Solid state2. Electrochemistry3. Chemical Kinetics

	<ol style="list-style-type: none"> 4. p -Block Elements 5. Coordination Compounds 6. Haloalkanes and Haloarenes 7. Alcohols, Phenols and Ethers 8. Aldehydes, Ketones and Carboxylic Acids 9. Amines
BIOLOGY	<ol style="list-style-type: none"> 1. Ch2:Sexual reproduction in flowering plants 2. Ch3: Human reproduction 3. Ch6:Molecular basis of Inheritance 4. Ch8: Human health and disease 5. Ch11: Biotechnology-principles and processes 6. Ch12: Biotechnology & its Applications 7. Ch13: Organisms and Populations 8. CH 15:Biodiversity and conservations
MATHS	<ol style="list-style-type: none"> 1. Matrix and determinants 2. Application of differentiation 3. Integration 4. Application of integration 5. Differential equations 6. 3D geometry 7. Linear programming 8. Probability
MARKETING	<ol style="list-style-type: none"> 1. Unit 1. Product Mix 2. Unit 2. Price Mix 3. Unit 3. Place Mix 4. Unit 4. Promotion Mix 5. Unit 5. Emerging Trends in Marketing 6. Employability Skills- ICT

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