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Units	Subjects	Details
Unit-1	Teaching Aptitude	Teaching: Concept, objectives, levels of teaching (memory, understanding, and reflective), characteristics, and basic requirements Learner's characteristics: Characteristics of adolescent and adult learners (academic, social, emotional and cognitive), individual differences Factors affecting teaching related to Teacher, Learner, Support material, Instructional facilities, Learning environment, and Institution Methods of teaching in higher learning institutions: Teacher-centred vs learner-centered methods; offline vs online methods (Swayam, Swayamprabha, MOOCs, etc.). Teaching support system: Traditional, modern, and ICT based Evaluation systems: Elements and types of evaluation, evaluation in Choice Based Credit Systems in higher education, computer-based testing, innovations in evaluation systems
Unit – 2	Research Aptitude	Research: Meaning, types, and characteristics, positivism and post-positivistic approach to research Methods of research: Experimental, descriptive, historical, qualitative and quantitative methods Steps of research Thesis and article writing: Format and styles of referencing Application of ICT in research Research ethics
Unit – 3	Comprehension	A passage of text is given. Questions are asked from the passage which needs to be answered.
Unit – 4	Communication	Communication: Meaning, types, and characteristics of communication Effective communication: Verbal and non-verbal, inter-cultural and group communications, classroom communication Barriers to effective communication Mass-media and society
Unit – 5	Mathematical Reasoning and Aptitude	Types of reasoning Number series, letter series, codes, and relationships Mathematical aptitude (fraction, time & distance, ratio, proportion and percentage, profit and loss, interest and discounting, averages etc.)
Unit – 6	Logical Reasoning	Understanding the structure of arguments: Argument forms, the structure of categorical propositions, mood and figure, formal and informal fallacies, uses of language, connotations, and denotations of terms, the classical square of opposition Evaluating and distinguishing deductive and inductive reasoning

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		Analogies Venn diagram: Simple and multiple uses for establishing the validity of arguments Indian Logic: Means of knowledge Pramanas: Pratyaksha (Perception), Anumana (Inference), Upamana (Comparison), Shabda (Verbal testimony), Arthapatti (Implication) and Anupalabddhi (Non-apprehension) Structure and kinds of Anumana (inference), Vyapti (invariable relation), Hetvabhasas (fallacies of inference)
Unit- 7	Data Interpretation	Sources, acquisition and classification of data Quantitative and qualitative data Graphical representation (bar-chart, histograms, pie-chart, table-chart and line-chart) and mapping of data Data interpretation Data and governance
Unit – 8	Information and Communication Technology (ICT)	ICT: General abbreviations and terminology Basics of Internet, Intranet, E-mail, Audio and Video-conferencing Digital initiatives in higher education ICT and Governance
Unit – 9	People, Development and Environment	Development and environment: Millennium development and Sustainable development goals Human and environment interaction: Anthropogenic activities and their impacts on the environment Environmental issues: Local, regional and global; air pollution, water pollution, soil pollution, noise pollution, waste (solid, liquid, biomedical, hazardous, electronic), climate change and its socio-economic and political dimensions Impacts of pollutants on human health Natural and energy resources: Solar, Wind, Soil, Hydro, Geothermal, Biomass, Nuclear and Forests Natural hazards and disasters: Mitigation strategies Environmental Protection Act (1986), National Action Plan on Climate Change, International agreements/efforts -Montreal Protocol, Rio Summit, Convention on Biodiversity, Kyoto Protocol, Paris Agreement, International Solar Alliance
Unit – 10	Higher Education System	Institutions of higher learning and education in ancient India Evolution of higher learning and research in post-independence India Oriental, conventional and non-conventional learning programmes in India Professional, technical and skill-based education. Value education and environmental education Policies, governance, and administration