



Mahatma Gandhi University, Nalgonda

Ph.D. Entrance Test 2024

Part A Syllabus

Unit-I 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.

Methods of teaching in Institutions of higher learning: Teacher centred vs. Learner centred methods; Off-line vs. On-line methods (Swayam, Swayamprabha, MOOCs etc.).

Teaching Support System: Traditional, Modern and ICT based.

Basics of Internet, Intranet, E-mail, Audio and Video-conferencing.

Digital initiatives in higher education.

Unit-II 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-III Comprehension & Communication

A passage of text be given. Questions be asked from the passage to be answered.

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-IV 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.).

Venn diagram: Simple and multiple use for establishing validity of arguments.

Unit-V 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.