

## PhD Entrance Test Session 2023-24

### Dr Shakuntala Misra National Rehabilitation University, Lucknow

#### Syllabus for Research Based Questions (no. of Questions 35)

##### Source: UGC NET Syllabus

- **Research Aptitude Research:**

Meaning, Types, and Characteristics, Positivism and Postpositivistic 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. •

- **Comprehension**

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

- **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. •

- **Logical Reasoning**

Understanding the structure of arguments: argument forms, structure of • categorical propositions, Mood and Figure, Formal and Informal fallacies, Uses of language, Connotations and denotations of terms, Classical square of opposition. Evaluating and distinguishing deductive and inductive reasoning. • Analogies. • Venn diagram: Simple and multiple use for establishing 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).

- **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. •

- **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. •

- **People, Development and Environment**

Development and environment: Millennium development and Sustainable • development goals. Human and environment interaction: Anthropogenic activities and their • impacts on 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.