

(Compulsory)

Teaching & Research Aptitude

Previous Year Solved Papers (2023 - 2004)



In the interest of student community

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UGC-NET EXAM

ABOUT THE UGC-NET EXAM

- The UGC-NET exam for Junior Research Fellowship/Eligibility for Assistant Professor, earlier conducted by the CBSE, is being conducted by the National Testing Agency (NTA) in online mode from Dec 2018.
- There will be two papers with a total of 300 marks.

| | General Aptitude | 1 hour | 50 Qs | 100marks |
|---------|------------------|---------|--------|-----------|
| Paper 2 | Optional Subject | 2 hours | 100 Qs | 200 marks |

- All questions, worth 2 marks each, will be compulsory; and, there will be no negative marking.
- (Five questions each carrying 2 marks are to be set from each Unit-The details of syllabus as below)

SYLLABUS

Unit-I Teaching Aptitude

- Teaching: Concept, Objectives, Levels of teaching (Memory, Understanding and Reflective), Characteristics and basic
- Learner's characteristics: Characteristics of adolescent and adult learners (Academic, Social, Emotional and Cognitive),
- Factors affecting teaching related to: Teacher, Learner, Support material, Instructional facilities, Learning environment
- Methods of teaching in Institutions of higher learning: Teacher centered vs. Learner centered methods; Off-line 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 System in Higher education, Computer based testing, Innovations in evaluation systems.

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.
- Thesis and Article writing: Format and styles of referencing.
- Application of ICT in research.
- Research ethics

Unit-III Comprehension

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

Unit-IV Communication

- Communication: Meaning, types and characteristics of communication.
- Effective communication: Verbal and Non-verbal, Inter-cultural and group communications, Classroom communication.
- Mass-Media and Society.

Unit-V 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-VI 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).

Unit-VII 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-VIII 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-IX 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.

Unit-X 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.