25%

NTA

UGC-NET/SET

**For JRF and Eligibility Test for Assistant Professor
(and Ph.D/M.Phil Entrance Exams)**

TEACHING AND RESEARCH APTITUDE

PAPER-I

With

Previous Years' Papers

New Syllabus.

By

Sajit Kumar & M. Gagan

▶▶▶▶▶ **Authentic & Dependable**

CONTENTS

GENERAL INFORMATION

NTA-UGC NET

On behalf of UGC, the National Eligibility Test (NET) is conducted for determining the eligibility of Indian nationals for the Eligibility for Assistant Professor only or Junior Research Fellowship & Eligibility for Assistant Professor Both in Indian Universities and Colleges.

The UGC- NET (for Eligibility for Assistant Professor only or Junior Research Fellowship & Eligibility for Assistant Professor both), will be conducted by the **NTA.**

The award of JRF and Eligibility for Assistant Professor both OR Eligibility for Assistant Professor only depends on the performance of the candidate in both the papers of NET in aggregate. However, the candidates qualifying exclusively for Assistant Professor are not to be considered for award of JRF. Candidates who qualify the Test for eligibility for Assistant Professor are governed by the rules and regulations for recruitment of Assistant Professor of the concerned universities/colleges/state governments, as the case may be.

CONDITIONS OF ELIGIBILITY

Candidates who have secured at least 55% marks (without rounding off) in Master's Degree OR equivalent examination from universities/institutions recognised by UGC in Humanities (including languages) and Social Science, Computer Science & Applications, Electronic Science etc. are eligible for this Test. The Other Backward Classes (OBC) belonging to non-creamy layer/Scheduled Caste (SC)/Scheduled Tribe (ST)/Persons with disability (PWD) category candidates who have secured at least 50% marks (without rounding off) in Master's degree or equivalent examination are eligible for this Test.

AGE LIMIT

(i) Junior Research Fellowship: Not more than 30 years (check notification for exact date). A relaxation upto 5 years is provided to the candidates belonging to OBC/SC/ST/PWD categories and to women applicants. Relaxation will also be provided to the candidates having research experience, limited to the period spent on research in the relevant/related subject of post-graduation degree, subject to a maximum of 5 years, on production of a certificate from appropriate authority. Three years' relaxation in age will be permissible to the candidates possessing L.L.M. Degree. Total age relaxation on the above ground(s) shall not exceed five years under any circumstances. **(ii) Assistant Professor:** There is no upper age limit for applying for eligibility for Assistant Professor.

SCHEME OF THE TEST

The UGC-NET will be conducted in objective mode only. The Test will consist of two papers. Both papers will consist of only objective type questions and will be held on the same day of Examination.

The Test will consist of two papers as given below:

Paper	Marks	Number of Questions	MCQs	Duration
I	100	50	The questions will be generic in nature, intending to assess the teaching/research aptitude of the candidate. It will primarily be designed to test reasoning ability, comprehension, divergent thinking and general awareness of the candidate.	03 hours All the questions will be compulsory.
II	200	100	This will be based on the subject selected by the candidate.	

The Test will be conducted in Computer Based Test (CBT) mode only, and will be held on different dates at various centres in India.

Syllabus of Test: Syllabi for all NET subjects can be downloaded from the UGC Website www.ugc.ac.in or **www.ugcnetonline.in**

IMPORTANT

The National level test for determining the eligibility of candidates for the award of Junior Research Fellowship/Assistant Professor in all Science subjects falling under the Faculties of Science (Physical, Biological and Applied) is being conducted jointly with the Council of Scientific and Industrial Research (CSIR), New Delhi.

The candidates desirous of availing UGC-JRF or obtaining eligibility for Assistant Professor in the Science subjects are advised to appear at the UGC-CSIR national level test announced by the CSIR.

The UGC Test for JRF/eligibility for Assistant Professor will be held at the University Test Centres specified below. The candidates may register for the test at the nearest centre. Please note that change of centre will not be allowed under any circumstances.

NET SUBJECTS WITH CODES: • Economics (01). • Political Science (02). • Philosophy (03). • Psychology (04). • Sociology (05). • History (06). • Anthropology (07). • Commerce (08). • Education (09). • Social Work (10). • Defence & Strategic Studies (11). • Home Science (12). • Public Administration (14). • Population Studies* (15) • Hindustani Music (Vocal/Instrumental) (16). • Management (17). • Maithili (18). • Bengali (19). • Hindi (20). • Kannada (21). • Malayalam (22). • Odia (23). • Punjabi (24). • Sanskrit (25). • Tamil (26). • Telugu (27). • Urdu (28). • Arabic (29). • English (30). • Linguistics (31). • Chinese (32). • Dogri (33). • Nepali (34). • Manipuri (35). • Assamese (36). Gujarati (37). • Marathi (38). • French (39). • Spanish (40). • Russian (41). • Persian (42). • Rajasthani (43). • German (44). • Japanese (45). • Adult Education/Continuing Education/Andragogy/Non-Formal Education (46). • Physical Education (47). • Arab Culture and Islamic Studies (49). • Indian Culture (50). • Labour Welfare/personnel Management/Industrial Relations/Labour and Social Welfare/Human Resource Management (55). • Law (58). • Library and Information Science (59). • Buddhist, Jaina, Gandhian and Peace Studies (60). Comparative study of religions (62). • Mass Communication and Journalism (63). • Dance (65). • Museology & Conservation (66). • Archaeology (67). • Criminology (68). • Tribal and Regional Language/Literature (70). • Folk Literature (71). • Comparative literature (72). • Sanskrit Traditional subjects (including Jyotisha/Sidhanta Jyotisha/Navya Vyakarna/Vyakarna/Mimansa/Navya Nyaya/Sankhya Yog/Tulanatmaka Darsana/Shukla Yajurveda/Madhav Vedant/Dharma Sastra/Sahitya/Purana-itihasa/Agama/Advaita Vedanta (73). • Women Studies** (74). • Visual Art (including Drawing & Painting / Sculpture Graphics / Applied Art/History of Art) (79). • Geography (80). • Social Medicine & Community Health (81). • Forensic Science (82). • Pali (83). • Kashmiri (84.) • Konkani (85). • Computer Science and Applications (87). • Electronic Science (88). • Environmental Sciences (89). • International & Area Studies (90). • Prakrit (91). • Human Rights and Duties (92). • Tourism Administration/Management (93). • Bodo (94). • Santali (95). • Karnatik Music (Vocal Instrument, Percussion) (96). • Rabindra Sangeet (67). • Percussion Instruments (68). • Drama/ Theatre (99) • Yoga (100). • Sindhi (101).

Students are advised to refer to latest notification as and when released by UGC/NTA at www.nta.ac.in and www.ntanet.nic.in

(vi)

UNIVERSITY GRANTS COMMISSION NET BUREAU

PAPER-I

New Syllabus ❖ New Pattern

Subject : GENERAL PAPER ON TEACHING & RESEARCH APTITUDE   **CODE NO. 00**

The main objective is to assess the teaching and research capabilities of the candidates. The test aims at assessing the teaching and research aptitude as well. Candidates are expected to possess and exhibit cognitive abilities, which include comprehension, analysis, evaluation, understanding the structure of arguments, deductive and inductive reasoning. The candidates are also expected to have a general awareness about teaching and learning processes in higher education system. Further, they should be aware of interaction between people, environment, natural resources and their impact on the quality of life.

Note :

(i) Five questions each carrying 2 marks are to be set from each Module.

(ii) Whenever graphical/pictorial question(s) are set for sighted candidates, a passage followed by equal number of questions and weightage be set for visually impaired candidates.

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.
- **Factors affecting teaching related to:** Teacher, Learner, Support material, Instructional facilities, Learning environment and Institution.
- **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.
- **Evaluation Systems:** Elements and Types of evaluation, Evaluation in Choice Based Credit System in Higher education, Computer based testing, Innovations in evaluation systems.

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.

III. Comprehension

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

IV. 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.

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.).

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).

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.

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.

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.

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.