



महाराष्ट्र शासन

इतर मागास बहुजन कल्याण विभाग, महाराष्ट्र राज्य, मुंबई.



कार्यालय, व्यवस्थापकीय संचालक, महात्मा ज्योतिबा फुले संशोधन व प्रशिक्षण संस्था  
(महाज्योती), महाराष्ट्र राज्य, नागपूर

पत्ता : डॉ.बाबासाहेब आंबेडकर सामाजिक न्याय भवन, ३ रा माळा, दीक्षाभूमी रोड, श्रद्धानंद पेठ, नागपूर - ४४० ०२२  
दूरध्वनी क्र.०७१२- २९५९३८९ CIN No. U८५३००PN२०१९NPL१८७४०५ ई-मेल: [fellowshipmahajyoti@gmail.com](mailto:fellowshipmahajyoti@gmail.com)

जावक क्र.महाज्योती/PHD/२०२३/२६९५

दि.०८.१२.२०२३

### महात्मा ज्योतिबा फुले संशोधन अधिष्ठात्रवृत्ती (MJPRF) वर्ष २०२३

#### करिता अर्ज केलेल्या उमेदवारांची परीक्षा घेण्याबाबत परिपत्रक

डॉ.बाबासाहेब आंबेडकर संशोधन व प्रशिक्षण संस्था, (बार्टी), पुणे, महात्मा ज्योतिबा फुले संशोधन व प्रशिक्षण संस्था, (महाज्योती), नागपूर व छत्रपती शाहू महाराज संशोधन, प्रशिक्षण व मानव विकास संस्था, (सारथी), पुणे या तीनही संस्थांची पीएचडी अधिष्ठात्रवृत्ती योजनेत उमेदवारांची निवड करण्याकरिता एकत्रित परीक्षा सावित्रीबाई फुले पुणे विद्यापीठ, पुणे यांनी रविवार दि.१७ डिसेंबर २०२३ रोजी सकाळी १०.०० ते ११.०० या वेळेत आयोजित केलेली आहे.

उपरोक्त तिन्ही संस्थांकरिता एकच परीक्षा घेण्यात येणार असल्याने महाज्योतीचे परिपत्रक क्रमांक जा.क्र.महाज्योती/नागपूर/पीएचडी अधि./२०२३/१९६० दि.२७.०९.२०२३ रद्द करण्यात येत आहेत, याची सर्व विद्यार्थ्यांनी नोंद घ्यावी.

एकत्रित परीक्षेचे स्वरूप, वेळ, दिनांक, दिव्यांगासाठी सूचना, अभ्यासक्रम आदी बाबींची माहिती सोबतच्या सहपत्रात नमूद करण्यात आलेली आहे, त्याचे अवलोकन उमेदवारांनी करावे. ज्या विद्यार्थ्यांनी सारथी व महाज्योती संस्था अश्या दोन्ही संस्थांकडे अर्ज केलेला आहे, असे विद्यार्थी ज्या संस्थेच्या प्रवेशपत्रावर परीक्षा देतील याच संस्थेच्या जागांसाठी त्यांचा विचार केला जाईल.

महाज्योतीमार्फत खालीलप्रमाणे दोन याद्या प्रसिद्ध करण्यात येत आहेत :

अ क्र	तपशील	संख्या
१.	परीक्षेसाठी पात्र उमेदवारांची यादी	१३८२
२.	अपात्र उमेदवारांची यादी	७५
	<b>एकूण</b>	<b>१४५७</b>

सावित्रीबाई फुले पुणे विद्यापीठाद्वारे परीक्षेसाठी पात्र उमेदवारांच्या यादीत नमूद सर्व विद्यार्थ्यांचे Hall Ticket त्यांनी अर्ज भरतेवेळी दिलेल्या ई-मेलवर पाठविण्यात येणार आहे. तरी ई-मेल तपासण्याची जबाबदारी विद्यार्थ्यांची राहिल. ई-मेलवर सदर Hall Ticket प्राप्त न झाल्यास परीक्षेच्या दोन दिवस आधी महाज्योती संस्थेच्या संकेतस्थळावरून विद्यार्थ्यांना Hall Ticket डाऊनलोड करता येईल.

स्वाक्षरीत/-

(राजेश खवले)

व्यवस्थापकीय संचालक,

महात्मा ज्योतिबा फुले संशोधन

व प्रशिक्षण संस्था, (महाज्योती), नागपूर.



**BARTI, SARTHI, MAHAJOYTI**  
**The Autonomous Institutes of Government of Maharashtra**

**Combined Entrance Test (CET)**  
**for award of Ph.D. Fellowship**

**Instruction for the candidates appearing for CET**

- 1. Day & Date of Exam: Sunday 17<sup>th</sup> December 2023**
- 2. Timing: 10.00 a.m. to 11.00 a.m.**
- 3. Syllabus for CET is as per Maharashtra SET Paper-I.**
- 4. Question paper pattern and instruction for CET candidates.**
  - The syllabus consists of ten units.**
  - There will be five multiple type questions on each unit.**
  - The paper will consist of 50 multiple choice questions, each carrying TWO marks.**
  - All questions are compulsory and no negative marking.**
  - Total Marks 100.**
  - Duration of paper ONE hour.**
  - The candidates with benchmark disability (PWD) will be given 20 minutes extra time for the test.**
  - Candidate have to submit original OMR sheet to invigilator.**
  - Candidate should report the centre ONE hour before.**
  - The candidates with benchmark disability (PWD) who are eligible for writer, the writer should be a graduate only, in the subject other than that of the CET candidate and should be arrange at their own level (No payment will be made for).**
  - The candidates with benchmark disability (PWD) must carry original disability certificate.**
- 5. Link of syllabus: [https://setexam.unipune.ac.in/Syllabus/General\\_PaperI\\_SET\\_syllabus.pdf](https://setexam.unipune.ac.in/Syllabus/General_PaperI_SET_syllabus.pdf)**

# Maharashtra State Eligibility Test for Lectureship

महाराष्ट्र राज्य व्याख्यातापदासाठी राज्यस्तरीय पात्रता चाचणी (सेट) परीक्षा

Conducted by University of Pune  
(AS THE STATE AGENCY)

## SYLLABUS

**Subject: GENERAL PAPER ON TEACHING & RESEARCH APTITUDE**

**Code No. : 00**

### PAPER-I

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.

The details of syllabi are as follows:

#### 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.
- 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.

**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**

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

**Unit-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.

**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.

- 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.