

## LABORATORY ASSISTANT: DIRECT RECRUITMENT EXAMINATION

**I. MODE OF SELECTION:** The Mode of Selection will be as follows:-

- (i) Candidates fulfilling the minimum eligibility conditions will be considered **provisionally eligible** and they will be called for the Competitive Written Examination.
- (ii) The University shall conduct written tests in two stages – Paper-I and Paper-II which shall be of objective type carrying 100 marks each.
- (iii) The answer scripts of the candidates for Paper-II shall be evaluated only in respect of those candidates who secure the minimum qualifying marks in Paper-I.
- (iv) The merit list of the candidates shall be drawn based on the performance in Paper-I and Paper-II.
- (v) Success in the examination and interview confers no right of appointment unless the University is satisfied after such enquiry as may be considered necessary that the candidate is suitable in all respects of appointment to the service/post.

**II. SCHEME OF EXAMINATION:** The examination will consist of a **Competitive Written Examination (Maximum Marks 200)**.

Paper	Subject	Maximum Marks	Minimum Qualifying Marks	Duration
Paper-I	General English	30	40	2 hours
	General Awareness	40		
	Numerical Aptitude, General Intelligence & Reasoning	30		
Paper-II	Physics	40	50	3 hours
	Chemistry	30		
	Biology	30		
	<b>Total</b>	<b>200</b>		

### **Paper-I (Objective):**

**General English:** Questions in this component will be designed to test the candidate's understanding and knowledge of English Languages and will be based on error recognition, fill in the blanks (using verbs, preposition, articles etc.), vocabulary, spellings, grammar, sentence structure, synonyms, antonyms, sentence completion,

correct use of words, phrases and idioms, ability to write language correctly, precisely and effectively.

**General Awareness:** Questions in this component will be aimed at testing the candidates' general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of every day observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to Mizoram University, Mizoram, North-Eastern States, India and other countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity and scientific research.

**Numerical Aptitude:** This paper will include questions on problems relating to Number Systems, Computation of Whole Numbers, Decimals and Fractions, Fundamental arithmetical operations, Percentages, Ratio and Proportion, Averages, Interest, Profit and Loss.

**General Intelligence & Reasoning:** The test will include questions on analogies, similarities and differences, problem solving, analysis, judgment, decision making, visual memory, relationship concepts, verbal and figure classification, arithmetical number series, non-verbal series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship and other analytical functions.

**Paper-II (Objective):**

**Physics:** Units and Measurements; Scalar and Vector quantities; Least Count, Elasticity, Surface Tension; Viscosity; Waves and Oscillations; Newton's Laws of Motion; Laws of Thermodynamics; Electricity and Magnetism; Semiconductors, P-N Junction, Boolean Algebra; Atomic Structure: Bohr's model; Refraction, Reflection, Polarization, Interference and Diffraction.

**Chemistry:** List of apparatus for identification; Safety procedures; Basic Laboratory Techniques; Melting Point and Boiling Point, pH; Purification technique: crystallization, distillation, chromatography; Quantitative Estimation; Qualitative analysis

**Biology:** General principles of Basic Biology Equipments (pH meter, Weighing Balance, LAF); General Principles of Hygiene, Cleaning processes (Autoclaving, Disinfection etc.); General principles of Basic Biology Experiments (Sample Collection, Sample Processing, Glassware & Plasticware Sterilization etc.); Biological Waste Collection and Treatment

**III. RESOLUTION OF TIE CASES:** Tie cases will be resolved by applying one after another, as applicable till the tie is resolved, as follows:-

- (i) Candidates securing higher marks in Paper-II shall be placed higher.
- (ii) Date of Birth, with older candidate placed higher.
- (iii) Alphabetical order in which the names of the candidate appear.

**Note:-**

1. At any stage of the selection process, the University may specify cut-off qualifying marks higher than the minimum qualifying marks based on the number of vacant posts and the number of candidates qualified as per the minimum standard.

2. The minimum qualifying marks is relaxable at the discretion of the University, if at any stage of the selection process; the University is of the opinion that sufficient number of candidates from the reserved categories are not likely to be available to fill up the vacancy reserved for them.