

**CENTRAL UNIVERSITY OF KARNATAKA**

**Notification No. 24/2019, Dated:04-09-2019**

Syllabus for Post of **SENIOR TECHNICAL ASSISTANT (LAB)**

**SENIOR TECHNICAL ASSISTANT (LAB)**

The written Examination will consist of an **Objective Type Paper** of 100 Multiple Choice Questions (MCQs) divided into the parts I and II of 40 and 60 MCQs each..

<b>Part</b>	<b>Subject</b>	<b>Maximum Marks</b>	<b>Duration</b>
Part I	General English, General Knowledge, Numerical Aptitude & Reasoning	40	2 Hrs.
Part II	Knowledge of domain area	60	
<b>Total</b>		<b>100</b>	

**Part-I**

- A. General English:** Questions in this component will be designed to test the Candidate's understanding and knowledge of English Language like Error recognition, Fill in the blanks (using verbs, preposition, articles etc.), One word substitution, Improvement of Sentences, Vocabulary, Spellings, Grammar, Sentence Structure, Synonyms, Antonyms, Sentence Completion, Phrases and Idiomatic use of words, Comprehension of Passages, as may be expected of a well-educated person who has not made a special study of the subject.
- B. General Studies:** Questions will be designed to General Studies viz., General Science, current events of national and international importance, History of India and Indian National Movement, India and World Geography, Indian Polity & Economy, General Mental Ability, Central University of Karnataka, Indian States, India and other countries.
- C. Numerical Aptitude & Reasoning:** The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be the computation of whole numbers, decimals and fractions and relationships between numbers. It will test sense of order among numbers, ability to translate form one name to another, sense or order of magnitude, estimation or prediction of the outcome of computation, selection of an appropriate operation for the solution of real life problems and knowledge of alternative computation procedures to find answers. The questions would also be based on arithmetical concepts and relationship between numbers and not on complicated arithmetical computation. On general reasoning, the candidates will be tested on reasoning and analytical abilities.

**Part-II**

**Science Stream:** Question will be based on the Lab. Instruments, Lab. Safety, Lab. Operation, Basic of Environmental studies and Chemical reaction, functioning and operations of important instruments: pH Meter, Turbidity Meter, Conductivity Meter, Thermo-Hygro Meter, Luxmeter, High Volume Sampler, Distillation plant, Hot air oven, Centrifuge, Spectrophotometer, Laminar flow, Autoclave, Incubator, Furnace, Water Bath, Kjeldahl

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nitrogen apparatus, Flame photometer, Sound level meter, microscope, Lysimeter  
Knowledge of laboratory safety practices, Preparation of normal and molar solutions,  
sample preparation: wet digestion & dry ashing Analytical analysis of important  
parameters: pH, Turbidity, Electrical Conductivity, Alkalinity. Acidity, Total Solid, Total  
Dissolved Solid, Total Suspended Solid, Hardness, Free CO<sub>2</sub>, Dissolved Oxygen, Biochemical  
Oxygen Demand, Chemical Oxygen Demand, Phosphate, Nitrate, Ammonia, Sulphate, Iron  
Microbial media: bacterial & fungal, pure culture technique, sterilization, staining  
Sampling techniques for vegetation, soil, water, & air Measurement techniques for weather  
parameters, radiation, aerosols, Black Carbon, Soil moisture, upper air profiling, lab. Safety,  
Preparation of Lab. Manuals, Anatomy.

**Skill Test: Lab Test**