SYLLABUS FOR LABORATORY ASSISTANT EXAMINATION  
UNDER COMMERCE & INDUSTRIES DEPARTMENT

GENERAL ENGLISH (100 marks)

(a) Essay Writing (Conventional) ................................................................. 20 Marks
(b) Idioms & Phrases (Objective Type) .................................................... 16 Marks
(c) Comprehension of given passages (Objective Type) ...................... 16 Marks
(d) Grammar (Objective Type) ................................................................. 16 Marks
   Parts of Speech : Nouns, Adjective, Verb, Adverb, Preposition, etc.
(e) Composition (Objective Type) ............................................................ 16 Marks
   i) Analysis of complex and compound sentences
   ii) Transformation of sentences
   iii) Synthesis of sentences
(f) Correct usage and vocabularies (Objective Type) ......................... 16 Marks

Technical Paper – I : (150 Marks)

Unit I – Physics :

combined gas law, Specific heat, Heat capacity, Latent heat, Conduction, Convection, Radiation, Newton’s law of cooling, Black body, Kirchoff’s law, Stefan’s law.

**Unit II – Chemistry:**


**Unit III – Biology:**

Technical Paper – II (150 Marks)

Unit I – Physics:


Unit II - Chemistry


Unit III – Biology


Unit III – Aptitude Test 20 marks

- **Numerical And Figurework Tests: (4 Marks)**
  These tests are reflections of fluency with numbers and calculations. It shows how easily a person can think with numbers. The subject will be given a series of numbers. His/Her task is to see how the numbers go together to form a relationship with each other. He/She has to choose a number which would go next in the series.

- **Verbal Analysis And Vocabulary Tests: (6 Marks)**
  These tests measure the degree of comfort and fluency with the English language. These tests will measure how a person will reason with words. The subject will be given questions with alternative answers, that will reflect his/her command of the rule and use of English language.

- **Visual And Spatial/3-D Ability Tests: (4 Marks)**
  These tests are used to measure perceptual speed and acuity. The subject will be shown pictures where he/she is asked to identify the odd one out; or which comes next in the sequence or explores how easily he/she can see and turn around objects in space.

- **Abstract Reasoning Tests: (6 Marks)**
  This test measures the ability to analyse information and solve problems on a complex, thought based level. It measures a person’s ability to quickly identify patterns, logical rules and trends in new data, integrate this information, and apply it to solve problems.
Paper – II

Unit I – Physics:

Unit II - Chemistry

Unit III – Biology