

- 14.6 Principles of Organic Chemistry Experiments: Preparation of, acetanilide, p-nitro acetanilide, di-benzoyl acetone, aniline yellow, beta-naphthol-aniline dye.
- 14.7 Basic Laboratory Technique: Cutting glass tube and glass rod, bending a glass tube, drawing out a glass jet, boring of cork.

## **Part III: (a) English Proficiency and (b) Logical Reasoning**

### **(a) English Proficiency**

This test is designed to assess the test takers' general proficiency in the use of English language as a means of self-expression in real life situations. It specifically tests the test takers' knowledge of basic grammar, their vocabulary, their ability to read fast and comprehend, and also their ability to apply the elements of effective writing.

#### **1. Grammar**

- 1.1 Determiners, Prepositions, Modals, Adjectives, Relative Pronouns
- 1.2 Agreement, Time and Tense
- 1.3 Parallel Construction
- 1.4 Voice, Transformation
- 1.5 Question Tags, Relative Clauses

#### **2. Vocabulary**

- 2.1 Odd Word, One Word, Spelling & Word Formation, Homophones
- 2.2 Contextual Meanings of Vocabulary (Definitions, Academic Vocabulary, Connotation)
- 2.3 Synonyms, Antonyms, Collocations
- 2.4 Phrasal Verbs & Idioms
- 2.5 Analogy

#### **3. Reading Comprehension**

- 3.1 Content/Ideas (Finding Main Ideas, Reaching Conclusions Using Supporting Evidence, Anticipation of Ideas, Distinguishing Facts from Opinions)
- 3.2 Vocabulary (Figurative Usage: Metaphors and Similes; Select CLOZE)
- 3.3 Summary (Findings from Options the Correct Summary)
- 3.4 Referents
- 3.5 Reorganization of Information (Jigsaw Reading)

#### **4. Composition**

- 4.1 Rearrangement (Word Order; Logical Organization of Paragraph)
- 4.2 Paragraph & Unity (Identifying the Correct Topic Sentence;)
- 4.3 Linkers/Connectives

### **(b) Logical Reasoning**

The test is given to the candidates to judge their power of reasoning spread in verbal and nonverbal areas. The candidates should be able to think logically so that they perceive the data accurately, understand the relationships correctly, figure out the missing numbers or words, and apply rules in novel contexts. These indicators are measured through performance on such tasks as detecting missing links, following directions, classifying words, establishing sequences, and completing analogies.