

## GSECL Lab Tester Exam Pattern

Sl.No	Name Of The Subject	Number of Marks
1	Gujarati Language & Grammar	10 Marks
2	General Knowledge	10 Marks
3	English knowledge	10 Marks
4	Computer Knowledge	10 Marks
5	Technical Subjects	60 Marks
Total Marks		100 Marks

## GSECL Lab Tester Syllabus - Topic Wise

### English Language, Gujarati Language & Grammar

- Para Completion
- Spelling Test
- Sentence Arrangement
- Articles
- Error Correction (Underlined Part)
- Tense
- Fill in the blanks
- Transformation
- Joining Sentences
- Sentence Improvement
- Substitution
- Passage Completion
- Error Correction (Phrase in Bold)
- Prepositions
- Active and Passive Voice
- Gerunds
- Identify the Errors
- Synonyms
- Spotting Errors
- Idioms and Phrases
- Antonyms
- Nouns
- Adjectives
- Homophones
- Sentence Completion
- Suffix
- Prefix
- Sentence Pattern
- Odd Words
- Plural Forms
- Synonyms

- Tag Questions
- Identify the Sentences
- Prepositions

### **General Knowledge**

- Indian Current Events,
- Technology,
- Important dates,
- Current affairs of National & International news,
- Current Science,
- General Knowledge.
- General Science,
- Banking,
- Sports & Culture & Banking Sector
- Marketing.

### **Computer Knowledge**

- MS Excel – Spread Sheets.
- Operating System
- Computer Software.
- Word Processing – MS Word.
- Internet Usage.
- MS Power-Point – Presentation.
- Computer Fundamentals.

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<b>B.</b>	<b>On-line Exam</b>
1.	<p>The tentative syllabus for the exam will be including but not limited to following topics and emphasis could differ.</p> <p><b>Section: I Gujarati Language &amp; Grammar (10%)</b>  <b>Section: II General Knowledge (10%)</b>  <b>Section: III English knowledge (10%)</b>  <b>Section: IV Computer Knowledge (10%)</b>  <b>Section: v Covering following subjective topics (60%)</b></p> <ul style="list-style-type: none"> <li>➤ Inorganic Chemistry-I <ul style="list-style-type: none"> <li>- Atomic Structure</li> <li>- Chemical Bonding &amp; Molecular Structure <ul style="list-style-type: none"> <li>• Ionic Bonding</li> <li>• Covalent Bonding – VB Approach, MO Approach</li> </ul> </li> </ul> </li> <li>➤ Organic Chemistry – I <ul style="list-style-type: none"> <li>- Fundamentals of Organic Chemistry <ul style="list-style-type: none"> <li>• Physical effects, Electronics Displacements</li> <li>• Structure, Shape and reactivity of Organic molecules.</li> </ul> </li> <li>-Stereochemistry</li> <li>-Aliphatic Hydrocarbons</li> </ul> </li> <li>➤ Physical Chemistry –I <ul style="list-style-type: none"> <li>-Chemical Energetics</li> <li>-Chemical Equilibrium</li> <li>-Ionic Equilibria</li> </ul> </li> <li>➤ Organic Chemistry – II <ul style="list-style-type: none"> <li>-Alkyl and Aryl Halides</li> <li>-Alcohols, Phenols and Ethers</li> </ul> </li> <li>➤ Physical Chemistry –II <ul style="list-style-type: none"> <li>-Solutions</li> <li>-Phase Equilibrium</li> <li>-Conductance</li> <li>-Electrochemistry</li> <li>-Amines &amp; Diazonium Salts</li> <li>-Amino Acids, Peptides and Proteins</li> <li>-Carbohydrates</li> <li>-General Principles of Metallurgy</li> <li>-s-and p-Block Elements</li> <li>-Compounds of s-and p-Block Elements</li> </ul> </li> <li>➤ Physical Chemistry – III <ul style="list-style-type: none"> <li>-Kinetic Theory of Gases</li> <li>-Liquids</li> <li>-Solids</li> <li>-Chemicals Kinetics</li> <li>-Introduction &amp; History of Polymeric Materials</li> <li>-Functionality and its importance</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>-Kinetics of Polymerization</li> <li>-Crystallization and Crystallinity</li> <li>-Nature and Structure of Polymers</li> <li>-Determination of molecular weight of polymers</li> <li>-Glass transition temperature (Tg) and determination of Tg.</li> <li>-Polymer solution</li> <li>-Properties of polymers</li> <li>-Industrial Gases and Inorganic Chemicals</li> <li>-Environment and its Segments.</li> <li>-Energy and Environment</li> <li>-Bio-catalysis</li> <li>-Carbohydrates</li> <li>-Amino Acids, Peptides and Proteins</li> <li>-Enzymes and Correlation with drug action</li> <li>-Nucleic Acids</li> <li>-Lipids</li> <li>-Concept of Energy in biosystems</li> </ul> <p style="text-align: center;"><b>“The question paper will be in English and Gujarati Language only”.</b> <b>In case of dispute, English version shall be final.</b></p>
2.	The question paper for the On-line exam shall be consisting of 100 questions and the paper shall be of 100 marks. There shall be negative marking system and 1/4th mark for each wrong answer shall be deducted to arrive at total marks scored.
3.	The Management reserves the right to short-list, select and reject any candidates for On-line Exam as the case may be for selection.
<b>C.</b>	<b>Result of On-line Exam</b>
1.	As per GSO-3 the minimum eligibility cut off marks for selection will be 50 and above marks for unreserved candidates and 45 and above for reserved candidates (SC/ST/SEBC). However, the selection will be made purely on the basis of merit considering available vacancies and reservation rules.
2.	5% marks (of secured marks in On-line Exam) over and above actual marks secured shall be added in case of Widow Female Candidates. The widow female candidate, if remarried shall not be given advantage of grace of 5 % marks. Further, the widow candidates shall categorically state so and inform if they are remarried with necessary documentary proofs.
3.	While preparing result, if two or more candidates found with equal marks in On-line Exam, they will be kept in merit according to their date of birth i.e. elder will be kept in priority to younger and if the date of birth is also found same, then they will be kept in priority according to alphabet seniority of name.
4.	The Selection List as and when required as per the vacancy position shall be drawn from result published. The result published shall be valid for the period of one year from the date of publication.
5.	The selection for the above posts will be on the basis of marks obtained in On-line Exam and subject to reservation rules, documents verification and pre-employment medical examination.