



## GOA UNIVERSITY

Taleigao Plateau, Goa - 403 206 INDIA

Established by State Legislature by Notification No. LD/10/7/84 (D) of year 1984  
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### **SCHEME OF EXAMINATION AND SYLLABUS FOR WRITTEN TEST FOR RECRUITMENT OF ASSISTANT ELECTRICIAN**

#### **Question Paper Format:**

1. The written test for Assistant Electrician will be objective type of 90 minutes duration for total of 50 Marks and consist of two sections- Section A and Section B.

2. There will be total 50 MCQs 1 marks each. Each correct answer shall be awarded 1 mark. An un-attempted question shall be awarded 0 marks.

#### **3. Section A shall comprise of the following sub-sections carrying 5 marks each:**

A.1) Konkani (5 Questions)

A.2) Logical Reasoning & Analytical (5 Questions)

A.3) General Knowledge (5 Questions)

A.4) English (5 Questions)

**Section B:** will be technical and will carry 30 Marks

#### **Shortlisting Criterion based on performance in Written Test:**

Note: Only those candidates who have secured a minimum of 2 correct answers in section A. 1 out of 5 will be considered for the basis of shortlisting.

The list will be prepared by sorting the total score obtained by the candidates in the Written test in descending order.

**Tie-Breaking** - In the event of a tie, such cases will be resolved by giving higher preference to a candidates score in the following sub sections in the sequence given below until the tie is resolved

1. Higher Score in Section B (Technical)

Higher Score in Section A.2 (Logical Reasoning & Analytical )

2. Higher Score in Section A.3 (General Knowledge)

3. Higher Score in Section A.4 (English Grammar and Comprehension)

**Note :** The Selection will be totally based on the performance of written Test and there will be no separate interview.

## **SYLLABUS FOR THE POST OF ASSISTANT ELECTRICIAN**

### **Section A**

#### **A.1) Konkani**

- 1.कोंकणीप्रमाणलेखनाचेनेम. (गोवाकोंकणीअकादेमी)
2. कोंकणीभाशेंत 01 ते 50 मेरेनआंकडेबरोवपाचीपद्दत.
3. भूतकाळ, वर्तमानकाळआनीभविश्यक, काळ.
4. एकवचनआनीभोववचन

#### **A.2) Logical Reasoning & Analytical**

Number and Alphabetical series, Mathematical Operations, Jumbling, Venn Diagram, Similarities and Differences, Analytical Reasoning, Age calculations, Calendar, Alphabet test, Ranking.

#### **A.3) General Knowledge:**

Current affairs, Indian polity and constitution of India, Physical and political geography of India, Indian history, Economy, Awards and honors, General science and Sports, Basic architecture of a computer, input, output and storage devices, internet and email, office applications.

#### **A.4) English**

Functional English, Reading Comprehension, Vocabulary, Parts of Speech

### **Section B:**

Basic Electricity: Introduction, use of electricity, how electricity is produced, Types of current\_ AC, DC, their comparison, voltage, resistance, their units. Conductor, insulator, Types of connections - series, parallel, electric power, Horse power, energy, unit of electrical energy. Concept of earthing. ohm's law, ampere's law, electromagnetic field, electrical measuring tools and devices such as voltage tester, earth tester, multimeter, digital ammeter.

Type of electrical devices like starters, relays and circuit breakers, their power ratings, working principles and use in circuits, Types of cables and insulation, Type of faults associated with lighting arrangements, Determination of power rating, tools and equipment used for electrical earthing works, Single phase and Three phase systems. Feeder & distributor, transformer.