

Total No. of Printed Pages—3

CODE : 33VT EMEL (Pr-I)

(EN)

2026

Suggestive Question Paper for

ELECTRICAL MECHANICS AND ELECTRICIAN
(Electrical Machines)

Practical Paper : I

Full Marks : 40

Pass Marks : 16

Time : 3 hours

Candidates shall note that each question will be bilingual, viz., in English/Assamese medium, for their ready reference. In case of any discrepancy or confusion in the medium/version, the English version will be considered as the authentic version.

The figures in the margin indicate full marks for the questions.

Note : The question paper for 2026 Exam has to be prepared on this basis without repeating from the suggestive questions as far as practicable.

Contd.

PART-B
(Practical Work)
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Perform the practical work of **any one** from Q. No. **1** to Q. No. **4**.

1. (a) Measure the resistance of the field winding of a given d.c. machine using voltage drop method. Prepare an observation chart. 9
 (b) Draw the circuit diagram for (a) and show the ratings of the equipments used. 6
2. (a) Dismantle the d.c. motor given to you. Make a complete study of the motor and show the different parts in it with the help of a diagram. 9
 (b) Reassemble the parts of the motor and connect, start and run it. 6
3. A d.c. shunt motor has the ratings as 400 volts, 25 HP, 450 RPM. Perform the following :
 (a) Install the motor at a given place and carry out the necessary test. 9
 (b) Prepare a list of tools and equipment necessary to carry out (a) above with specifications. 6
4. (a) Carry out the necessary tests to find out the fault occurring in the given single phase a.c. motor. 8
 (a) Overhaul the motor and connect, start and run it. 7
5. Written test. 5
- N.B. : The external examiner will have to set questions for this test as per the respective practical work done by each individual candidate.
6. Viva voce. 5

PART-C
(Project Work/Field Visit)

7. Practical File/Student's Portfolio. 10
8. Viva voce. 5

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CODE : 33VT EMEL (Pr-II)
(EN)

2026

Suggestive Question Paper for

ELECTRICAL MECHANICS AND ELECTRICIAN

(Common Domestic Appliances, Estimating and Costing)

Practical Paper : II

Full Marks : 40

Pass Marks : 16

Time : 3 hours

Candidates shall note that each question will be bilingual, viz., in English/Assamese medium, for their ready reference. In case of any discrepancy or confusion in the medium/version, the English version will be considered as the authentic version.

The figures in the margin indicate full marks for the questions.

Note : The question paper for 2026 Exam has to be prepared on this basis without repeating from the suggestive questions as far as practicable.

Contd.

(Practical Work)
(Practical Examination)

Perform the practical work of **any one** from Q. No. **1** to Q. No. **4**.

1. Perform the necessary tests to identify the faults occurring in the motor of the given electric fan. Overhaul the motor and identify the various parts in it. 15
2. Perform the necessary tests to find the fault occurring in the mixer-grinder. Repair the mixer-grinder to remove the fault. 15
3. The domestic water pump given to you is not functioning. Test the pump to detect the exact cause(s) of the fault. Repair the fault so that it will function properly. 15
4. Dismantle the refrigerator unit given to you. Replace the defective part(s). Make a list of part(s) to be replaced. Now reassemble all the parts of the refrigerator unit. Test the unit now to check if it is functioning properly. 15
5. Written test. 5

N.B. : The external examiner will have to set questions for this test as per respective practical work done by each individual candidate.

6. Viva voce. 5

PART-C
(Project Work/Field Visit)

7. Practical File/Student's Portfolio. 10
8. Viva voce. 5