

Roll No _____

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SINDH BOARD OF TECHNICAL EDUCATION KARACHI

DIPLOMA OF ASSOCIATE ENGINEER 3rd YEAR

MODEL PAPER

ANNUAL EXAMINATION 2021

Technologies: ELECTRICAL

SUBJECT: ET 353 REPAIR & MAINTENANCE OF ELECTRICAL EQUIPMENT

SECTION "A" OBJECTIVE

Instructions:

- Attempt all questions.
- All questions carry equal marks.
- Question paper must be returned back to invigilator within the scheduled time.

TIME: 40 Minutes
MAX. MARKS: 25

Q1.(a) Fill In the Blanks

Max Marks 14

1. Grower device used for _____ Testing.
2. Do not put sharp edged tools in your _____.
3. 3 phase starter used in _____ motor.
4. Schedule Maintenance Planned _____.
5. The universal motor can be operated on _____ or _____.
6. Merger used for _____.
7. The rotor speed is _____.

Q.1(b) Encircle "T" for true and "F" for false:

Max Marks 6

1. Synchronous motor on a low speed. (T / F)
2. The silica gel breather is replaced when become pink, (T / F)
3. In industrial easting resistance less than 5Ω . (T / F)
4. Electro lite of lead acid Battery used 1 ratio 5. (T / F)
5. Merger used for find short circuit. (T / F)
6. Single phase starter use for start the machine (T / F)

Q1.(c) Multiple choice questions:

Max Marks 5

1. Short motor run too slow.
(a) Due to brushes is out of order (b) Size of motor is small (c) None of them
2. The direction of three phase induction motor can be changed.
(a) By inter change of two phase (b) By shorted of starter coil (c) By movement of no voltage coil
3. The cooling system of transformer is.
(a) Air cooling system (b) Water cooling (c) Both
4. Trickle charging is required in which batteries
(a) Nicked iron (b) Primary (c) Lead acid
- (5) The resistance of a Rotor is.
(a) Low (c) Medium (c) High

Signature of Candidate

Seal of Examination Centre

Signature of Invigilator

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SECTION "B" & "C"

TIME: 2.40 HOURS

MAX. MARKS: 25

Section "B"

(Short Answer Questions)

Max. Marks: 15

Q2: Attempt any six questions from the following. All questions carry equal marks.

1. Compare between minor repair & major repair.
2. Draw the diagram of 3-point DC starter.
3. Enlist common ten tools which are commonly used for repair shops.
4. Draw a layout of repair shop with section label.
5. Write down the common fault occur in single phase transformer.
6. Enlist the common ten instrument which are commonly used in routine repair.
7. State the remedies of 3 phase motor failure to start.
8. Write the common fault of shunt DC motor.
9. Give the possible cause if 3 phase induction motor fail to start.

Section "C"

(Descriptive Answer Questions)

Max. Marks: 10

Q3: Attempt any two questions from the following. All questions carry equal marks.

Q1. Explain the Working principle and test of growler meter.

OR

Explain the common faults caused remedies of DC generator (series)

Q2. Write the safety precautions are to be taken while commissioning and maintaining PMT.

OR

Draw and explain the auto may be star delta starter.
