

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE- SEMESTER-VIII (OLD) EXAMINATION – WINTER 2020****Subject Code:180901****Date:25/01/2021****Subject Name:Commissioning Of Electrical Equipments****Time:02:00 PM TO 04:00 PM****Total Marks: 56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks

- Q.1** (a) Explain the polarity test and voltage ration test of 3-phase transformer **07**
(b) Explain the polarization Index Number. What is the significance of it and how is it measured? **07**
- Q.2** (a) Explain the purposes for performing no-load and block rotor test of induction motor. **07**
(b) Explain the filtration procedure of transformer oil. **07**
- Q.3** (a) List the necessary conditions of synchronization of two alternators. Explain any one method **07**
(b) Explain the Swinburne's test of dc machine. **07**
- Q.4** (a) State the various troubles with commutator and brush gear. **07**
(b) Explain Murray Loop test of underground fault in cable. **07**
- Q.5** (a) Define slip. Explain the various methods of measurement of slip of induction motor. **07**
(b) Explain Mechanical endurance test of circuit breaker. **07**
- Q.6** (a) Explain Hopkinson's test of dc machine. **07**
(b) Differentiate between routine test and type test. List out the different test of transformer **07**
- Q.7** (a) State the various troubles, causes and remedies of D.C.Motor. **07**
(b) What are the causes of vibrations in rotating machine? How the vibration will be measured? What are the remedies of it.? **07**
- Q.8** (a) Explain the different methods of earth resistance measurement. **07**
(b) Explain the Insulation resistance measurement by Megger of transformer. **07**
