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**Question Paper Code:59325**

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Elective

Electrical and Electronics Engineering

15UEE925 - ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL  
EQUIPMENTS

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (3 x 2 = 6 Marks)

**(Answer any three of the following questions)**

1. State the importance of polarity and phase sequence in transformer CO1- R
2. State the various tests in commissioning of Power Transformers. CO2- R
3. Mention the significance of line charging capacitance. CO3- R
4. State the standard test necessary on synchronous motors. CO4- R
5. Specify types of protective devices used in electrical systems? CO5 -R

PART – B (3 x 8= 24 Marks)

**(Answer any three of the following questions)**

6. Explain the important steps followed in inspection of transformers. CO1- U (8)
7. Describe the test setup for impulse testing of power transformers CO2- U (8)
8. Explain the sudden 3 phase short circuit test on a 3 phase synchronous generators & also explain how to calculate  $X_d'$ ,  $X_d''$ ,  $X_d$  or  $X_s$ . CO3- Ana (8)
9. Describe the mechanical tests for alignment, bearings, vibrations and balancing in induction machine CO4 -U (8)
10. Explain the layout of a simple short circuit testing station for proving the ratings of the circuit breaker. CO5 -U (8)