Centre for Open and Distance Learning(CODL) Tezpur University

ASSIGNMENT FOR SPRING SEMESTER END EXAMINATION, 2020

Course Name- Energy Efficiency in Electrical Utilities

Course Code- DRE 203

Full Marks= 30

(Attempt all questions)

1. (a) What are the typical billing components of the two-part tariff structure of an industrial utility?

    (b) A three phase delta connected induction motor has a stator resistance of 0.233 Ohms per phase at 30°C. A no-load test conducted on the motor shows a no-load power of 890W at a no load current of 14.5A. Calculate the fixed losses for this motor.

    [10+5]

2. How the capacity of a refrigeration machine is controlled? Briefly explain the methodology of refrigeration plant energy audit.   **[5+10]**

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