

School of Engineering
Department of Mechanical Engineering
Mid Term Examination

Exam Date: 29 Sep 2023
Time : 90 Minutes
Marks : 50

Sem VII - BME021 - Energy Conservation and Management

Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary

- 1) Demonstrate the process of conducting boiler efficiency testing in steam systems. K2 (2)
- 2) Choose an energy-efficient motor for a specific application K1 (3)
- 3) Compare the importance of energy management in different industries. K2 (4)
- 4) Compare the energy efficiency of different motor drives K2 (6)
- 5) Develop a plan to utilize excess steam for flash steam utilization in an industrial process. K3 (6)
- 6) Apply motor efficiency testing techniques to determine the energy performance of a motor drive system K3 (9)
- 7) Analyze the energy efficiency of centrifugal pump models K4 (8)
- 8) Assume different scenarios and evaluate the financial implications of implementing energy-efficient lighting options K4 (12)

OR

Analyze the energy efficiency of different pump models and categorize them based on their performance K4 (12)