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BEY-005

**BACHELOR OF SCIENCE (APPLIED
SCIENCE-ENERGY) (BSCAEY)**

Term-End Examination

June, 2025

**BEY-005 : ENERGY EFFICIENCY AND
MANAGEMENT**

Time : 3 Hours

Maximum Marks : 70

***Note : Attempt any **seven** questions. All
questions carry equal marks.***

1. (a) What are some common factors that contribute to fluctuations in energy cost for businesses ? 5
- (b) Discuss the objectives and strategies of National Water Mission (NWM) in India. 5
2. Discuss various microfactors which affect Financial Analysis. 10
3. Describe the process of distillation of petroleum fuel with a neat sketch. 10

4. Discuss the various energy conservation opportunities in boiler. 10
5. What are Recuperators ? Describe their construction and working principles with a neat sketch. 10
6. Describe thermo electric energy conversion technology with a neat sketch. How is it useful in waste heat recovery ? 10
7. Discuss the various techniques used for electrical load management. 10
8. (a) Explain step-by-step process for conducting home energy audit. 5
 (b) Discuss the effect of rewinding on energy efficiency. 5
9. Write short notes on any *two* of the following : 5+5
 - (a) Transformer
 - (b) Sankey diagram
 - (c) Heat pipe exchanger
 - (d) Combustion optimization

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