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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

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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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