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BEY–002

B. SC. (APPLIED SCIENCE–ENERGY) (BSCAEY)

Term-End Examination

June, 2025

BEY-002 : ENERGY RESOURCES

Time : 3 Hours *Maximum Marks : 70*

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

1. Describe the characteristics and applications of petroleum. 10
2. Explain the various types of calorific values of coal. Also derive the expression for the relation between GCV and NCV. 10
3. Describe in detail the vapour lock characteristics of 'gasoline'. 10
4. Discuss about the radioactive wastes in relation to the nuclear energy. 10

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5. What are the various components of a 'box type solar cooker' ? Also, explain the working of 'box type solar cooker'. 10

6. Enumerate the various types of 'anemometer' and describe all of them in detail. 10

7. Explain the construction and working of an impulse turbine with a neat sketch. 10

8. (a) Describe in brief the Oscillating Water Column (OWC) wave energy technology. 5

   (b) What is biomass densification ? Elaborate. 5

9. Write short notes on any *two* of the following : 5+5

   (a) Anaerobic digestion

   (b) Applications of geothermal energy

   (c) Tidal energy

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