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BEY–002

B. SC. (APPLIED SCIENCE AND ENERGY)

(BSCAEY)

Term-End Examination

December, 2024

BEY–002 : ENERGY RESOURCES

Time : 3 Hours *Maximum Marks : 70*

Note : *(i) Attempt any* ***seven*** *questions.*

(ii) All questions carry equal marks.

1. Define energy. Describe in brief different forms of energy. 10

2. Give a neat sketch of energy flow diagram to the earth and discuss it in detail. 10

3. Explain, in detail, the various parameters of proximate analysis of coal. 10

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4. Elaborate the various steps involved in the refining processes of petroleum and natural gases. 10

5. Describe the various aspects of the front end of the nuclear fuel cycle with neat sketches. 10

6. Discuss, in detail, the construction and working of a pyranometer. 10

7. Explain the working principle of a solar cell in detail. 10

8. (a) Explain in brief the various characteristics of wind resource. 5

   (b) Enumerate the various components of a hydropower plant. 5

9. (a) Write down the various advantages and disadvantages of wave energy. 5

   (b) Discuss, in brief, the pyrolysis of biomass. 5

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