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**MRW-007**

**MASTER OF SCIENCE (RENEWABLE  
ENERGY AND ENVIRONMENT)  
(MSCRWEE)**

**Term-End Examination**

**December, 2023**

**MRW-007 : ENERGY ECONOMICS AND PLANNING**

*Time : 3 Hours*

*Maximum Marks : 70*

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

(ii) All questions carry equal marks.

(iii) Use of scientific calculator is permitted.

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1. (a) Explain the major characteristics of scientific management. 7
- (b) The organization you work for should be treated as scientific unit, why? 7
2. Distinguish between any *two* of the following : 7 each
- (a) Physical infrastructure and Social infrastructure

**P. T. O.**

- (b) Present worth method and Future worth method
  - (c) Fixed price product and Combination price product
3. (a) Discuss the critical elements of economic environment. 7
- (b) Discuss the important elements of Indian energy policy. 7
4. (a) Describe the functions of the various organs of the United Nations. 7
- (b) Explain the linkages between the trade and the environment. 7
5. (a) Describe various methods of summarizing data. 7
- (b) Describe the techniques used in different steps of decision-making. 7
6. (a) Explain the methodology of rural energy planning. 7
- (b) What are the unaccounted costs ? How do they affect the estimation of energy savings ? 7

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7. Write short notes on any *four* of the following :

4×3.5=14

- (a) Payback period
- (b) Gasifier based irrigation unit
- (c) Critical elements of economic environment
- (d) Group decision-making
- (e) Effective control process
- (f) Capital recovery factor