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MRW-007

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

(MSCRWEE)

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 70

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

(ii) All questions carry equal marks.

(iii) Use of scientific calculator is permitted.

1. What are different types of control ? Why an effective control process is required in an organization ? 14
2. (a) Define the concept of elasticity of demand and explain its significance.
(b) Describe the interaction between the economic environment and business management. 7+7=14
3. (a) How does economic growth contribute to the growth of infrastructure sector ?
(b) Discuss the various factors that drive energy prices. 7+7=14
4. (a) Describe the salient features adopted during Rio Earth Summit, 1992.
(b) Discuss the multilateral initiatives to control environment. 7+7=14
5. (a) Describe three distinct stages in consideration of total quality of product.
(b) Explain the various phases of a decision making process. 7+7=14

6. (a) Find the compound interest on ₹ 48,000 for one year at 8% per annum when compounded half-yearly.
- (b) The median of observations 11, 12, 14, 18, $x + 2$, 20, 22, 25, 61 arranged in ascending order is 21.
- (i) Find the value of x .
- (ii) Calculate the mean of the data and represent it in X-chart. $7+7=14$
7. (a) Describe the present and future energy scenario with integrated rural energy planning.
- (b) What is life cycle cost ? What is its significance in determining payback period ? Explain in brief with the help of an example. $7+7=14$
8. Write short notes on any *two* of the following : $7+7=14$
- (a) Linear Programming
- (b) Improved Chulhas
- (c) Indian Economic Environment
- (d) Energy and Private Investment

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