Seat No.

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MAR_APR 2026 SUMMER EXAMINATION

1154 B.Tech. CBCS

Sub. Name: Energy and Environment

Sub. Code: 80768/81005

Day and Date: Wednesday,20-05-2026 **Total Marks: 70**

Time: 02:30 PM To 05:00 PM

Instructions:
1. **All questions are compulsory**
2. **Assume suitable data wherever necessary and mention it boldly**
3. **Figures to the right indicate full marks**
4. **Use Sketches/Diagrams wherever necessary**

Q1) Attempt all questions. **[11]**

1. Enlist and explain conventional & non-conventional energy sources. **[5]**
2. Explain basic energy principle in detail. **[6]**

Q2) Attempt any Two. **[12]**

1. Classify different types of biogas plant with suitable sketch. **[6]**
2. State factors affecting on wind energy production. **[6]**
3. What are the merits & demerits of solar energy? **[6]**

Q3) Attempt any Two. **[12]**

1. State characteristics of petroleum. **[6]**
2. Enlist compositions of natural gas. **[6]**
3. Write note on, Energy efficient building. **[6]**

Q4) Attempt all questions. **[11]**

1. Describe in detail, working of greenhouse effect. **[5]**
2. State different causes of acid rain. **[6]**

Q5) Attempt any Two. **[12]**

1. Why EIA is necessary for the different projects? **[6]**
2. What are the basic requirements for EIA process? **[6]**

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3. Discuss in detail, limitations of EIA. **[6]**

Q6) Attempt any Two. **[12]**

1. Explain in detail meaning of energy audit. **[6]**

2. What are the benefits of energy audit? **[6]**

3. State difference between Preliminary & Detailed energy audit. **[6]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (101) Bachelor of Engineering (81005) Energy and Environment Part 3 SEM 5
2] (1154) B.Tech. CBCS (80768) Energy and Environment Part 3 SEM 5

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