

462

Register No.:

April 2024

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. List the forms of energy.
2. What are the essential characteristics of geothermal power plant?
3. What are the factors affecting bio gas generation?
4. What are the challenges associated with conversion of solar energy?
5. Draw the electronic arrangement of silicon atom.
6. Write short notes on EGS.
7. Write the materials for thin film technologies.
8. Write the principle of solar green house.
9. Write short notes on audit bureau.
10. How energy loss due to heat radiation is prevented?

[Turn over.....

PART – B

11. (a) Explain renewable energy policies in India.
(Or)
(b) Explain the components of wind energy conversion system.
12. (a) List the classification of bio gas plant and explain any one with neat sketch.
(Or)
(b) Explain the measuring instruments for solar radiation.
13. (a) Explain intrinsic and extrinsic semiconductor with neat sketch.
(Or)
(b) (i) Explain the process flow of Si technology. (7)
(ii) Explain anti reflection coating and surface passivation. (7)
14. (a) Explain different types of solar cell structures.
(Or)
(b) (i) Explain design and structure of PV module. (7)
(ii) Explain Solar pumping. (7)
15. (a) Explain about energy conservation guidelines for Industries by BEE, Govt. of India.
(Or)
(b) Explain any two projects carried out in Tamil Nadu in each of the following
(i) Solar energy (7) (ii) Wind Energy (7)
