BEE–002

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT (ACPDM)

Term-End Examination

December, 2023

BEE-002 : ENERGY MANAGEMENT AND IT APPLICATIONS

Time : 3 Hours   *Maximum Marks : 100*

Note **:** (*i*)   *The question paper has **three** Parts : Part–**I**, Part –**II** and Part–**III.***

   (*ii*)   *Answer the questions as indicated in each Part.*

   (*iii*)   *All questions should be answered in English only.*

Part—I

1. Give the full forms of the following abbreviations :   10×1=10

   (a)   ABT

(b) ATM

(c) CRM

(d) DT

(e) GPS

(f) HTML

(g) LAN

(h) SLD

(i) SMS

(j) WWW

Part—II

Note : *Attempt   any   **ten**   of   the   following*
questions.   10×7=70

2. What are the various actions recommended for reducing technical losses under energy audit program ?

3. What are the kinds of accidents that may take place in electrical installations ?

4. Explain the ESCO route to DSM.

5. Discuss the changes being brought about by the use of IT in the working of electrical business.

6. What are the problems encountered in energy accounting ?

7. Explain the major causes for *five* outbreaks in a power utility. What techniques can be used for handling and preventing such fives ?

8. What is global warming ? How is our energy wage influencing it ?

9. State the objectives of energy conservation in building codes program.

10. Explain the need for zoning for natural disasters. What zoning schemes are in practice for earthquake ?

11. Explain the need for a disaster management plan for a power utility. Outline its objectives.

12. What is the standards and labelling program ? Explain how can it help in effective DSM.

Part—III

Note : *Attempt* *any* **two** *of* *the* *following* *questions.* *2 × 10 = 20*

13. Describe the benefits of the Geographic Information System (GIS) for managing the power distribution system.

14. Discuss the immediate, medium and long-term strategies adopted for meeting the goal of clean energy for all.

15. Explain *two* types of spot billing technology. What are their relative advantages and disadvantages ?

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