ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT (ACPDM)

Term-End Examination

June, 2024

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)   AMR

    (b)   GIS

(c) HVDS

(d) IVRS

(e) MIS

(f) MRI

(g) TOD

(h) SATCOM

(i) WAN

(j) RTU

Part—II

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

2. What is Energy Efficiency ? What are the benefits of improved energy efficiency ?

3. Discuss the measures taken for preventing and handling cases of electric shock.

4. What is ERP ? Discuss the benefits of using ERP in a power distribution utility.

5. What does Energy Audit Report contain ?

6. Discuss the benefits of DSM for power utilities, consumers and the society.

7. Explain the natural and enhanced Greenhouse effect.

8. What problems will your utility encounter if it resorts to energy accounting ? How can these be managed ?

9. What do you understand by business process re-engineering ?

10. Explain how can IT help in reducing AT & C losses and improving the efficiency of power distribution. Give examples.

11. What is ERS ? State its usefulness.

12. State the benefits of AMR and outline the hardware requirement for it.

Part—III

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

13. What is SCADA ? Discuss its wellness for improving the operation of a power distribution utility.

14. List 5 steps each that you can take immediately to :

   (a) Reduce your contribution to global warming.

   (b) Curtail air, water and land pollution due to your energy usage.

   (c) What are the facilities required to tackle any disaster ?

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