No. of Printed Pages : 3

BEE-002

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

Term-End Examination

June, 2019

00992

BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATIONS

Time : 3 hours

Maximum Marks : 100

Note: This question paper has three parts : Part I, II and III. Answer the questions as indicated in each part. Question no. 1 is compulsory. All questions should be answered in English language only.

PART I

1. Give full forms of the following abbreviations :

10×1=10

GPS, CIN, CDMA, IVRS, HVDS, SCADA, GSM, AMR, CRM, DSM

2. Attempt any *two* questions :

2×5=10

- (a) What is the significance of EC Act, 2001?
- (b) Define kilowatt hour (kWh) and its significance.
- (c) What is load factor ? What is its significance ?

PART II

Attempt any *five* questions.

- **3.** What are the various applications of GIS in management of Power Distribution System ?
- 4. List five steps that you can take immediately for each of the following :
 - (a) Reduce your contribution to global warming.
 - (b) Improve energy efficiency at home and at work.
 - (c) Use energy in a sustainable manner.
- 5. Describe the features of a good interactive consumer website.
- 6. What are the techniques for meter reading?
- 7. List the safety procedures you should take in each of the following cases :
 - (a) While replacing a fuse
 - (b) While handling a fuse
 - (c) When you are near an arc
 - (d) When you have live circuitry nearby
- 8. What are the tools used for customer analysis ? Outline their features. How do they benefit the utilities ?
- 9. What are the major problems and challenges faced by power utilities in implementing DSM on consumers ?

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PART III

Attempt any two questions.

2×15=30

- 10. Explain the structure of Disaster Management System with suitable block diagram.
- 11. What are infrastructure requirements for setting up an IT enabled customer care centre?
- 12. What are the hardware and software requirements for an automatic meter reading system?

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