No. of Printed Pages: 4

BEE-002

Maximum Marks: 100

ADVANCED CERTIFICATE IN POWER DISTRIBUTION MANAGEMENT

00985

Time . 2 hours

Term-End Examination June, 2014

BEE-002 : ENERGY MANAGEMENT AND ITS APPLICATION

Time.	nours	
Note:	III. Ans	estion paper has three parts: Part I, II and swer the questions as indicated in each part. on no. 1 is compulsory .
		PART I
1. (a)		in the blanks as given in the check list w using the following words : $10 \times 1 = 10$
	(i)	is a system of application of water at a particular angle on burning transformer oil.
	(ii)	Substation is integrated with SCADA often.
	(iii)	Many ERCs have mandated 100% metering at level.
	(iv)	provides the first line of defence against faults in a

substation.

(v) Zone-V covers the portion of the
country where risk is the
highest.
(vi) may be the secondary effect of flood.
(vii) Eliminate heat, and fuel for fire-fighting.
(viii) Turbine turns an electric
(ix) One unit of electric energy is equal Whr.
(x) One of the objectives of energy accounting is to identify areas of mismatch between and revenue collection.
Check list:
1000; Oxygen; Automation; Relay;
Epidemics; Emulsifiers; Billing;
Seismic; Generator; DTR.
Give full form of the following: $10 \times 1 = 10$
CFL, WAN, RTU, GIS, MIS, GHG, LEAP,
R & D, AT & C Loss, CNG.

(b)

PART II

Attempt any five questions.

5×10=50

- 2. Explain the ESCO route to DSM.
- 3. What is ERP? Outline the benefits of ERP software system and application areas in Distribution.
- 4. What is an energy audit? What is its purpose?
- 5. Describe first aid treatment for electric shock.
- 6. Describe different arrangements to limit spread of fire in a substation.
- 7. Outline the reasons for failures of electricity grid when a disaster strikes.

PART III

Attempt any two questions.

2×15=30

- **8.** What is SCADA? Discuss its usefulness for improving the operation of a power system.
- **9.** State and explain the purposes why should a power distribution utility use the GIS.
- **10.** Describe the process of using a simputer/spot billing machine.