

Roll No.

Total Pages : 2

BT-8/M-20

38192

POWER MANAGEMENT (E-IV)

Paper–EE-414-N

Option-I

Time Allowed : 3 Hours]

[Maximum Marks : 75

Note : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

UNIT-I

1. (a) What are the main objectives and types of planning in Power system? 8
(b) Describe the various environmental issues related to Power system. Which types of study required for them? 7
2. Describe the structure of Electricity industry. What are the various components in this system? Explain them in brief. 15

UNIT-II

3. Discuss the various issues while selecting the Power plant like geographical study and seismic consideration in brief. 15

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4. (a) Discuss the role of consulting service in Project management. 8
- (b) Explain Project management and Economic management in detail. 7

UNIT-III

5. (a) What are general precautions and steps being to be taken, while designing layout of any Electrical equipment? Explain in short. 8
- (b) Draw and explain the general layout of switchgear and control equipment in brief. 7
6. What is the role of maintenance in Power system planning? What type of maintenance required and how to calculate cost and other factors related to it? 15

UNIT-IV

7. What do you mean by Deregulation? What are the impacts on Indian power sector? How Haryana state, restructure its electricity policy and infrastructure as per new time frame? 15
8. Write short notes on the following points in contrast to Power management : 15
 - (a) Storage and handling.
 - (b) Water resources.
 - (c) Pricing and contracts.