

B.E. Electrical (Electronics & Power) Engineering Eighth Semester
EP8042 - Elective-II : Electrical Installation & Design

P. Pages : 2

Time : Three Hours



GUG/W/18/2014

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Answer **five** questions as per internal choice.
 3. Due credit will be given to neatness and adequate dimensions.
 4. Assume suitable data wherever necessary.
 5. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain in brief various types of Electrical Installation. 8
b) Explain with the help of neat diagram project organization chart. 8

OR

2. a) Write a short note on. 8
i) Revenue and check metering.
ii) Load Estimates for distribution system.
b) Explain in brief power company network. 8
3. a) Compare overhead service connection and underground service connection. 4
b) State the procedure of determination of conductor size in domestic installation. 4
c) Explain in brief the design consideration of electrical Installation in commercial building. 8

OR

4. a) Explain outdoor High voltage switchyard in brief. 4
b) Describe the electrical Installation in Hazardous areas. 4
c) What are the factors to be considered while deciding the distribution board and main switch for electrical motor in Industrial Installation. 4
d) Write a short note on. 4
Installation in wet areas.
5. a) Explain in brief Earthing of equipment in Distribution system. 8
b) Write a short note on: 8
i) Lightning protection of outdoor switchyard.
ii) Site testing and commissioning.

OR

6. a) Draw and explain various types of earthing. 8
- b) Write in brief. 8
- i) AS-Built Documentation and training.
- ii) Over voltage protection of equipment.
7. a) Discuss the various components of an Estimate. 8
- b) Write a note on. 8
- i) Bidding strategies.
- ii) Direct cost and Indirect costs.

OR

8. a) How project overhead summary and estimate summary sheet are prepared? Explain in brief. 8
- b) Write a note on: 8
- i) Pre bid scheduling.
- ii) Project cost control and Analysis.
9. a) State any Eight IE Rules related to Residential Installation. 8
- b) Write brief note on: 8
- i) Distribution of Electricity.
- ii) Tariff.

OR

10. a) Explain the following terms: 8
- i) National electricity policy and plan.
- ii) Regulatory commissions.
- b) Discuss appellate Tribunal for Electricity in brief. 8
