

**B.TECH. SEM -IV ELECTRICAL 2014 COURSE (CBCS) :**

**SUMMER - 2018**

**SUBJECT: GENERATION, TRANSMISSION AND DISTRIBUTION**

Day : **Saturday**  
Date : **09/06/2018**

**S-2018-2289**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the write indicate **FULL** marks.
- 3) Use suitable data if necessary.

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- Q.1** a) How site for hydroelectric power station is selected? (05)  
b) List types of turbine, explain any one in detail. (05)  
**OR**  
a) Explain working of diesel power plant. (05)  
b) Discuss working of gas power plant. (05)
- Q.2** a) Explain base load station and peak load station on power station. (05)  
b) Explain load curve and its importance. (05)  
**OR**  
a) Explain concept of cogeneration. (05)  
b) Explain concept of captive generation. (05)
- Q.3** a) Explain horizontal axis and vertical axis wind power plant. (05)  
b) Explain magneto hydro dynamics (MHD) generation. (05)  
**OR**  
a) Discuss concept of carbon credit. (05)  
b) Discuss about tidal energy. (05)
- Q.4** a) List different line supports explain one in detail. (05)  
b) What type of insulators are used over a transmission line? (05)  
**OR**  
a) Explain corona and its interference. (05)  
b) What is skin effect? (05)
- Q.5** a) Evaluate and estimate of ABCD constants. (05)  
b) Obtain performance of medium transmission line. (05)  
**OR**  
a) Represent  $\pi$  model of transmission line. (05)  
b) What is surge impedance loading? (05)
- Q.6** a) Classify different types of cable, explain one in detail. (05)  
b) Explain laying of underground cable. (05)  
**OR**  
a) Explain requirement of distribution system. (05)  
b) Explain classification of distribution system in detail. (05)

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