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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2018

B.Tech VII Semester

COURSE CODE: 10B1W CE732

MAX. MARKS:15

COURSE NAME: **Hydropower Engineering**

COURSE CREDITS: 3

MAX. TIME: One Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Assume suitable data if required

- Q1. Explain the various features which should be considered for Site selection for hydro-scheme. [4]
- Q2. Explain with neat sketch Concentrated fall schemes for high and medium head development power scheme. [4]
- Q3. Define specific speed of a turbine. Derive the expression for the same. [3]
- Q4. A generating station has a maximum demand of 30 MW, a load factor of 0.6, and a plant capacity of 0.48, find:
- (a) The daily energy produced
 - (b) Installed capacity of plant [2]
- Q5. Explain the following briefly.
- (a) Reaction turbine and Impulse turbine [1.0]
 - (b) Efficiencies of hydraulic turbines [1.0]