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Total No. of Questions: 8]

[Total No. of Printed Pages: 2

**B.E. VIIIth Semester (CGPA)** Examination, 2017

EF-352

CIVIL ENGG. (Hydraulic Structures) Paper: CE-805

Time: 3 Hours

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[Maximum Marks: 60

Note: - Attempt any five questions. All questions carry equal marks.

- 1. Explain the various forces acting on a gravity dam with neat sketches.
- Explain the causes of failure of earth dams. Also discuss their design criteria. 10
- 3. Explain the working and design details of a syphon spillway.

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Turn Over

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- 4. Discuss the classification of hydropower plants on the basis of:
  - Hydraulic characteristics
  - Operating head on turbines.
- Enumerate the different types of spillways which are used in dam construction.
- 6. What are Energy dissipators? Why are they used? Discuss the energy dissipators based on Tail water curve and jump height curve.
- 7. Discuss the classification of turbines on the basis of energy at inlet and head on turbines.

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- 8. Write short notes on any four:
  - (i) Ogee spillway
  - Chute spillway
  - (iii) Draft tube
  - Siphon aquaduct
  - Surge tanks.

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