Roll No. UlTians.

Total No. of Questions: 8]

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

EF-352

089001 CIVIL ENGG.

(Hydraulic Structures) Paper: CE-805

Time: 3 Hours]

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. 300
- 3. Explain the working and design details of a syphon spillway.

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- 4. Discuss the classification of hydropower plants on the basis of:
 - (i) Hydraulic characteristics
 - (ii) Operating head on turbines.
- 5. 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.
- 8. Write short notes on any four:
 - (i) Ogee spillway
 - (ii) Chute spillway
 - (iii) Draft tube
 - (iv) Siphon aquaduct
 - (v) Surge tanks.