

Code: 9A01604

B.Tech III Year II Semester (R09) Supplementary Examinations May/June 2017

WATER RESOURCES ENGINEERING – II

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 List the various types of dams and explain them in detail with respect to hydraulic design.
- 2 What is a gravity dam? List the various forces acting on a gravity dam. Also list the various modes of failure of a gravity dam. Explain any one failure in detail.
- 3 (a) What is a rock-fill earth dam?
(b) How do you control the foundation seepage in an earth dam?
- 4 (a) Explain straight drop spillway with sketches.
(b) Explain tunnel spillway in detail with sketches.
- 5 What type of forces are to be considered in the design of a weir? Explain with neat sketches.
- 6 Draw a neat diagram of cylinder notch fall and explain the functions of the fall.
- 7 Define and explain the following terms:
(a) Flexibility.
(b) Proportionality.
(c) Sensitivity
- 8 Explain the features of design of cross drainage works.
