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Eighth Semester B.E. Degree Examination, June/July 2018

Water Resources Engineering

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

PART - A

- 1 a. List and explain any five water management sectors. (10 Marks)
b. Explain the role of any five water management community in water resource engineering. (10 Marks)
- 2 a. What is hydrological cycle? Discuss briefly on different forms and types of precipitation. (10 Marks)
b. What is meant by design storm? Write briefly on disposal of rainfall on a watershed by bringing issues regarding time of concentration. (10 Marks)
- 3 a. Give the concept of unit hydrograph for arriving run-off for a storm of specified duration. What are factors controlling run-off from watershed? (10 Marks)
b. Explain in brief various losses from precipitation. (10 Marks)
- 4 a. Mention the methods used to water for agriculture. (10 Marks)
b. What are the positive and negative impacts of irrigation projects? (10 Marks)

PART - B

- 5 a. Bring out the different stages involved in flood plain management. (05 Marks)
b. Write a note on benefit/cost analysis of flood control projects. (08 Marks)
c. How do you carry out regulation of flood control reservoir by flood routing? (07 Marks)
- 6 a. Briefly discuss on the different stages involved in storm water management including the hydrological and hydraulic design. (10 Marks)
b. With neat sketch, explain detention basin outlet works. (10 Marks)
- 7 a. Discuss the importance of highway drainage and the requirement of a good highway drainage system. (10 Marks)
b. What are the functions of a spillway? Explain with sketches straight drop spillway, ogee spillway and chute spillway. (10 Marks)
- 8 a. List the essential requirements of spillway. (06 Marks)
b. Briefly describe the various components of spillway. (07 Marks)
c. Write a note on classification of buttress dam. (07 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.