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KOII NO. I						

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CE) (2011 Onwards) (Sem.-7,8) IRRIGATION ENGINEERING-II Subject Code : BTCE-803 M.Code : 71861

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
- 4. Assume any data suitabely.

SECTION-A

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Q1 Answer briefly :

- a. Explain the Term Exit Gradient.
- b. What is Diversion Headwork?
- c. Distinguish between Weir and Barrage.
- d. What is a Drainage Gallery?
- e. List the various types of Canal Outlets.
- f. In what situations Barrages are preferred?
- g. How Aqueduct site is selected?
- h. List the various types of Falls.
- i. Why Energy Dissipation devices are provided below spillways?
- j. What do you understand by Modular Outlet?



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SECTION-B

- 2. Explain the salient features of Cross Regulators.
- 3. Explain the working of a Syphon Aqueduct.
- 4. Discuss the factors affecting Seepage losses in irrigation channels.
- 5. Give the classification of various cross drainage works.
- 6. Explain the salient features of Lane Weighted Creep Theory.

SECTION-C

- 7. Compute the discharge over an Ogee spillway with the coefficient of discharge C = 2.5 at a head of 4m. The effective length of the spillway is 100m. Neglect the velocity of approach. How will you reclaim a water-logged and salt affected area and make it suitable for agriculture purpose.
- 8. Discuss the stepwise procedure for the design of Non-Modular Outlet.
- 9. Explain the stepwise procedure for the design of Inglis Type Fall.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.