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Roll No.

Total Pages: 02

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IRRIGATION ENGINEERING-II CE-403N

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit. Assume any missing data.

Unit I

1. (a) What is meant by 'Canal Falls' and where are they located?

(b) Discuss briefly various types of falls with neat sketches. Also discuss the suitability of each type.

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 Design a 1.5 metres Sarda type fall for a canal having a discharge of 12 cumecs, with the following data: 15

Bed level v/s - 103 m

Side slope of channel - 1:1 m

Bed level d/s - 101.5 m

Full supply level v/s - 104.5 m

Bed width v/s and d/s - 1.0 m

Soil - Good loam

Assume Bligh's coefficient - 6

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Unit II

i.	(a)	Explain	Canal	Escapes	and	also	discuss	its	types.	7
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(b) What is Canal Outlet? Also discuss the requirements of a Good module.

4. Write short notes on the following:

(a) Aqueduct

(b) Level crossing

(c) Syphon aqueduct.

Draw neat sketch for each.

Unit III

 (a) Define Dam. Explain various types of Dams with sketch.

(b) Discuss factors governing the selection of particular type of dam.7

6. (a) Differentiate Homogeneous Embakment type and Diaphrem type Earthen Dam.6

(b) Discuss the design criteria for earth dams.

Unit IV

(a) What is spill way gate? Discuss use of spillway gate and list its types.

(b) Write a short note on energy dissipators.

 Explain with sketch 'Chute Spillway' and discuss its design considerations.

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