

**PGDWR-03**

December - Examination 2015

**PGDWR Examination****Performance Evaluation of Irrigation Project****Paper - PGDWR-03****Time : 3 Hours ]****[ Max. Marks :- 100**

**Note:** The question paper is divided into three sections A, B and C. Write answers as per given instructions.

**Section - A**

10 x 2 = 20

(Very Short Answer Type Questions)

**Note:** Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) Describe Warabandi.
- (ii) Define buttress dam.
- (iii) Define visible leakage losses.
- (iv) What are percolation losses?
- (v) Define gully erosion.
- (vi) Define scouring.
- (vii) What is salinization?

- (viii) Define ecosystem.
- (ix) Define environmental impact.
- (x) Define water budgeting.

**Section - B**

4 x 10 = 40

(Short Answer Questions)

**Note:** Answer any **four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) How you will form water distribution committee?
- 3) Classify the category of an irrigation system by its size.
- 4) Explain the assessment of seepage losses.
- 5) List the sources for preparing a maintenance plan.
- 6) Explain the procedure generally used for performance evaluation of irrigation projects.
- 7) Explain soil alkalization and its impact on agriculture.
- 8) Describe the term effective rainfall.
- 9) Explain the social issues related with irrigation project.

**Section - C**

2 x 20 = 40

(Long Answer Questions)

**Note:** Answer any **two** questions. You have to delimit your each answer maximum 500 words. Each question carries 20 marks.

- 10) Describe the physical features of an irrigation system.
  - 11) Describe benchmarking of irrigation projects in detail.
  - 12) What are the common recommendations of performance evaluation studies?
  - 13) Discuss the operation of canal based on crop water requirement.
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