

**PGDWR-03**

June - Examination 2018

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

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

**Section - A****10 × 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 up to 30 words. Each question carries 2 marks.

- 1) (i) Explain the factors of a good water distribution system?
- (ii) Define gravity dam.
- (iii) What is conveyance efficiency?
- (iv) What are percolation losses?
- (v) Define gully erosion.
- (vi) Define scouring.
- (vii) What is irrigation efficiency?

- (viii) What do you mean by irrigation?
- (ix) Mention any two water-borne diseases?
- (x) Define cusec.

**Section - B****4 × 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) What are the main causes of system degradation, define briefly with examples?
- 6) Describe the three-tier system of participatory irrigation management?
- 7) What is the necessity of benchmarking?
- 8) Describe various types of losses in the conveyance system and on the field.
- 9) Define environmental impact.

**Section - C****2 × 20 = 40**

(Long Answer Questions)

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

- 10) Describe the physical features of an irrigation system?
  - 11) Prepare an effective MIS system on maintenance planning?
  - 12) Discuss the operation of canal based on crop water requirement?
  - 13) Discuss problems of water resources development sector and their possible solutions?
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