

**PGDWR-03**

June - Examination 2016

**PGDWR Examination****Performance Evaluation of Irrigation Projects****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 × 2 = 20**

(Very Short Answer 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) Write points to be considered in irrigation supply in a canal command.
- (ii) Explain conveyance of water to the command.
- (iii) What is absorption losses?
- (iv) What do you mean by emergent repairs?
- (v) What are the functions of water user association?
- (vi) Mention the points to be considered for socio economic impact study.
- (vii) What do you mean by data processing and analysis?

- (viii) What is irrigation efficiency?
- (ix) What do you mean by irrigation?
- (x) What do you mean by GCA in a irrigated command area?

### Section - B

$4 \times 10 = 40$

(Short Answer Questions)

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

- 2) You have to introduce participatory irrigation management in an old canal command area. How many types of farmers organisations you may have to form and what will be their command function?
- 3) Write the procedure for performance evaluation of irrigation project.
- 4) What are the data requirements pertaining to the irrigation system/sub system?
- 5) Discuss policy and institutional requirement for environmental impact study.
- 6) What do you understand by water quality?
- 7) Explain the following:
  - Acre inch
  - Cusec
  - Duty
  - Delta
  - Base period

- 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 upto 500 words. Each question carries 20 marks.

- 10) Describe the problems of water resource development sector and their possible solutions.
- 11) Write down the salient features of the project/system/sub-system.
- 12) Write benefits of bench marking process.
- 13) Define the meaning of head works and describe the various diversion works.

---