

PGDWR-03

June - Examination 2019

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 × 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) Explain the factors of a good water distribution system.
- (ii) Define gravity dam.
- (iii) What is conveyance efficiency?
- (iv) What are the functions of WUA?
- (v) Define alkalinity.
- (vi) Define wetlands.
- (vii) What is waterlogging?
- (viii) Define irrigation efficiency.
- (ix) Define environmental impact.
- (x) Define water budgeting.

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) Explain the principles of irrigation system operation.
- 3) Describe the command area and discuss briefly its features.
- 4) Explain the factors affecting seepage losses.
- 5) What are the general maintenance problems, describe most critical failure problem?
- 6) Make a note on Rajasthan Farmer's Participation in Management of Irrigation Systems Act, 2002.
- 7) Explain the agro-economic impacts of water resources project.
- 8) Describe the term ecosystem.
- 9) What do you understand by water quality?

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 in detail the formation of water distribution committee.
- 11) Prepare an effective MIS system on maintenance planning.
- 12) Differentiate between conceptual and methodological limitations of EIA.
- 13) Discuss agrochemical management in CAD.