

PGDWR-04
June - Examination 2018
PGDWR Examination
Practical Approach of Water Resource
Development
Paper - PGDWR-04

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 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) What is sandy soil?
- (ii) Write infiltration.
- (iii) Write texture of soil, What do you mean.
- (iv) What is terrace?
- (v) Define drip irrigation.

- (vi) Write about chak basin irrigation.
- (vii) What do you mean by drainage line?
- (viii) What is catchment area?
- (ix) Explain sub surface drainage.
- (x) What Porosity of soil.

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) Why we need land levelling and land grading.
- 3) How will you measure percolation.
- 4) How will you do drainage planning.
- 5) Why we need sub surface drainage.
- 6) Explain the structures for measuring the surface flow water in irrigation and drainage system.
- 7) Write different soil classification in India and explain.
- 8) What precautions should be taken for the topographical survey and mapping.
- 9) Make a note on micro sprinkler.

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) Draw on a graph L-section of a drainage system.
 - 11) What do you mean by GT sheet? What are the main features available on the sheet and how they are helpful in planning of irrigation system.
 - 12) What do you mean by irrigation losses in the field application from Naka to field. How many methods of irrigation are there in India. Explain.
 - 13) What is sprinkler irrigation. Explain. Also explain texture and structure of soil.
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