

PGDWR-01

June - Examination 2019

PGDWR Examination

Need of Water Resource Planning and Management

Paper - PGDWR-01

Time : 3 Hours]

[Max. Marks :- 100

Note: The question paper is divided into three sections A, B and C. Write answer 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) Mention the physiographic divisions of India.
- (ii) Explain the main requirements to flow measurement.
- (iii) Mention the harmful effects of irrigation.
- (iv) Define Alkalinity.
- (v) Which crops can be grown with drip irrigation system?
- (vi) Define green manure.
- (vii) What is sprinkler irrigation?

- (viii) Mention the components of drip irrigation system.
- (ix) What is the importance of soil texture?
- (x) What is uniform irrigation?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer any 4 questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Which waterways are fit for navigation in India?
- 3) Mention the indirect method for measuring water flow.
- 4) Explain the role of water in plant development.
- 5) Explain the advantages of furrow irrigation.
- 6) What are the advantages of drip irrigation system?
- 7) Discuss the hose reel system.
- 8) Make a note on porosity of soil.
- 9) Describe the type of soil water movement.

Section - C**2 × 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) Critically analyze the performance of irrigation development in India?
 - 11) Explain the stages of critical growth of crops?
 - 12) What are the objectives of land grading? How slope of the plane of best fit can be determined?
 - 13) On the basis of portability how can sprinkler systems be classified?
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