

PGDWR-01

December - Examination 2015

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 answers as per given instructions.

Section - A

10 x 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) Define agro climatic zone?
- (ii) Explain readily available water.
- (iii) Explain hydro-electric power.
- (iv) Define permanent wilting point.
- (v) Explain water conservation.
- (vi) Define sub irrigation.

- (vii) What is topography?
- (viii) What is soil erosion?
- (ix) Define Biwall irrigation.
- (x) Define soil genesis.

Section - B

4 x 10 = 40

(Short Answer Questions)

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

- 2) Make a note on institutional set up for water resources in India.
- 3) Explain the use of water resources in India.
- 4) Explain the water needs of the crops.
- 5) What are the objectives of land grading?
- 6) Make a note on rooting characteristics and moisture use of crops.
- 7) Discuss the hose reel system.
- 8) Make a note on micro sprinkler.
- 9) Explain irrigation scheduling based on soil characteristics.

Section - C

2 x 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) When no structure is available, how can discharge be measured? Explain the method.
 - 11) Explain the furrow irrigation in detail.
 - 12) Present soil and land irrigability classification.
 - 13) What are the objectives of land grading? How slope of the plane of best fit can be determined?
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