

PGDWR-01

June - Examination 2018

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 × 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 Soil as a medium of plant growth.
- (ii) What is Maximum water holding capacity?
- (iii) Explain Hydro-Electric Power.
- (iv) Define Alkalinity
- (v) Define Wetlands.
- (vi) What are line drippers?
- (vii) Explain green manuring.
- (viii) What is soil erosion?

- (ix) What should be the irrigation depth in potato and tomato?
- (x) What is uniform irrigation?

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) Make a note on institutional set up for water resources in India?
- 3) Mention the principal methods for measurement of discharge in open channels?
- 4) Explain the water needs of the crops.
- 5) What are the objectives of land grading?
- 6) How many types of critical flow flowers are there? Explain in detail.
- 7) What is irrigation water management? Explain.
- 8) Make a note on density of soil?
- 9) Explain the approaches for estimating crop water requirement?

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) How many types of surface irrigation methods are there? Explain.
 - 11) What is soil texture and soil structure and their importance and role?
 - 12) Describe water budget method for irrigation scheduling at farm level.
 - 13) On the basis of portability how can sprinkler systems be classified.
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