

PGDWR-01

June - Examination 2016

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 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 consumptive use of water?
- (ii) What are the factors affecting the amount of available soil moisture?
- (iii) What is particle density?
- (iv) What is line drippers?
- (v) Explain green manuring.
- (vi) How will you determine the crop water requirement for orchard?

- (vii) Do you feel the large quantity of water helps in optimum crop production?
- (viii) What should be the irrigation depth in cucumber, potato, tomato and peas?
- (ix) What is uniform irrigation?
- (x) Why did you decide to join PGDWR course?

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 role of water in plant development. Do you know that irrigation may have harmful effects, how? Draw figures also.
- 3) Explain the stages of irrigation development.
- 4) What are the principal methods of measurement of flow of water?
- 5) How many types of critical flow flowmeters are there? Explain in detail.
- 6) What is irrigation water management? Explain.
- 7) What is drip irrigation system and its advantages? Explain in detail.
- 8) Explain the economics of pressurised irrigation methods.
- 9) Define soil genesis.

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) Explain that the “Soil is a medium of plant growth” and soil moisture constants.
 - 13) Write approaches for estimating crop water requirement and irrigation scheduling.
- _____

