

**PGDWR-02**

June - Examination 2016

**PGDWR Examination****Need for Integrated Water Resources Management****Paper - PGDWR-02****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) What people/farmer participation is?
- (ii) Explain surface drainage.
- (iii) Describe division boxes.
- (iv) Define catchment area treatment.
- (v) Explain rain water harvesting.
- (vi) Explain reclamation of water logged saline soils.
- (vii) Discuss factors affecting watershed management.
- (viii) What is rain water management.

- (ix) Define soil and water conservation structure.
- (x) Explain series of check dams in Nalla Bunding.

**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) Mention the factors influencing drainage.
- 3) What are farm ponds?
- 4) Define centrally sponsored training of senior level officers (tots).
- 5) Explain command area development programme.
- 6) What is socially supportive drainage?
- 7) Discuss land grading severer.
- 8) What are the factors which influences the watershed management?
- 9) Explain impact of water logging problem.

**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) Discuss the channel discharge capacity, velocity and dimensions relative to design of surface drainage system.
  - 11) What is the concept of IWAM and what are the main component of IWAM? and what are goals of IWAM?
  - 12) Explain land grading, leveling and smoothing. What are the benefits of land grading?
  - 13) Why Command Area Development Programme was initiated? And what are the objectives of the Command Area Development Programme?
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