

**PGDWR-01**

**Post Graduate Diploma in Water  
Resources Management**

June - Examination 2015

**Need of Water Resource Planning and  
Management**

**PGDWR-01**

*Time : Three 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**

Very Short Answer Questions (Compulsory)

**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.  
( $10 \times 2 = 20$ )

1.
  - (i) Mention the physiographic divisions of India.
  - (ii) Explain the main requirements to flow measurement?
  - (iii) Mention the harmful effects of irrigation?  
(1)

### **Section-C**

(Long Answer Questions)

- (iv) Define infiltration rate?
- (v) Explain the crop water requirement?
- (vi) Define green manure?
- (vii) What is sprinkler irrigation?

(viii) Mention the components of drip irrigation system?

(ix) Define gravity irrigation?

(x) Define soil structure?

### **Section-B**

(Short Answer Questions)

- Note:** Answer any two questions. You have to delimit your answer maximum up to 500 words. Each question carries 20 marks.
- 1. Define maximum up to 500 words. Each question carries 20 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 rooting characteristics and moisture use of crops?
  - 6. What are the advantages of drip irrigation system?
  - 7. Explain the bubbler method of irrigation?
  - 8. Make a note on density of soil?
  - 9. Explain the approaches for estimating crop water requirement.

(2)

(3)