

PGDWR-04**Post Graduate Diploma in Water
Resources Management**

June - Examination 2015

**Practical Approach of Water Resource
Development****PGDWR-04***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

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. (10×2=20)

1. (i) Explain the international system of classifying soil?
- (ii) Define cumulative infiltration rate?
- (iii) What is saturated hydraulic conductivity?

- (iv) Name the flow measuring structures?
- (v) What is dowe!?
- (vi) Define sedimentation?
- (vii) Explain subsurface irrigation?
- (viii) What is sprinkler irrigation?
- (ix) Define contourline?
- (x) What is culturable command area?

Section-B

(Short Answer Questions)

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

4×10=40

2. How you can find out the texture of the soil in the field?
3. Describe the concentric cylinder infiltrometer?
4. Explain aquatic and vegetative growth in canal?
5. How can the leakage of canal be controlled?
6. Make a note on submerged orifices?
7. How you can identify waterlogged areas?
8. How cut-fill ratio is determined?
9. What is the process of marking chak boundaries?

(2)

Section-C

(Long Answer Questions)

Note: Answer any two questions. You have to delimit your answer maximum up to 500 words. Each question carries 20 marks.

2×20=40

10. Discuss the inverse auger hole method for measuring hydraulic conductivity?
11. Discuss in detail the determinants of soil formation and soil quality?
12. Design a proforma of salient features of project?
13. What precaution should taken for the topographical survey and mapping?

—x—

(3)