

PGDWR-04

December – Examination 2021

Post Graduate Diploma in Water Resource Management Examination

Practical Approach of Water
Resource Development

Paper : PGDWR-04

Time : 1½ Hours]

[Maximum Marks : 100

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

5×4=20

(Very Short Answer Type Questions)

Note :- Answer any *five* 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 4 marks.

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 plane of Best Fit ?
 - (vi) Define Pressurized Irrigation Method.
 - (vii) What is Medium Irrigation Project ?
 - (viii) What is Land Grading ?
 - (ix) What precaution should be taken for the Topographical Survey ?
 - (x) Define Contour Lines.
2. Explain the measurement of Infiltration.
 3. Make a note on determination of soil structure.
 4. Make a note on Submerged Orifices.
 5. How you can identify waterlogged areas ?
 6. How cut-fill ratio is determined ?
 7. What is the process of marking chalk boundaries ?
 8. Describe the main steps for better irrigation planning.
 9. What is the role of jungle clearance in Canal Maintenance ?

Section-B **4×20=80**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 20 marks.