



School of Development Studies

MBA Development Management

Batch-02 (2022-2024)

Second Year, Term 6 End Term Examination, March 2024

**DM-721 Participatory Irrigation Management and Watershed
Management**

Time - 3 Hour

Maximum Marks: 50 (Minimum Marks: 20)

Instructions to students:

- This question paper contains 02 printed page/s.
- Don't write anything on the Question Paper except writing your Enrolment No.

Part A

(Maximum Marks: 5)

Q1. Choose the correct option for the following (1 mark each):

- (a). How many states government used the PIM policy in India before passing of new Act?
- (i) Nine
 - (ii) Three
 - (iii) Five
 - (iv) Eight
- (b). How many Waters User Association forms the Distributary Committee?
- (i) 3 or more WUAs
 - (ii) 4 or more WUAs
 - (iii) 5 or more WUAs
 - (iv) 6 or more WUAs
- (c). When does the runoff occur?
- (i) Before the saturation of soil
 - (ii) After the saturation of soil
 - (iii) Both a and b
 - (iv) Just after the rain
- (d). Reasons for increasing deep tube wells in different parts i.e., especially in the western a
- (i) Presence of less amount of ground water
 - (ii) Competition among farmers for better crop and socio-economic development
 - (iii) Both of these
 - (iv) None of these
- (e). Area covered under mini watershed ranges between
- (i) 1-100 hectares
 - (ii) 40-100 hectares
 - (iii) 100-200 hectares
 - (iv) More than 250 hectares

Part B**(Maximum Marks: 15)****Answer any three of the following.**

- Q2.** Write down short notes on any two of the following (within 100 words): (5)
- (a). Traditional and modern techniques of Artificial Recharge
 - (b). Importance of groundwater in sustainability
 - (c). Community participation for groundwater management
- Q3.** Describe various sources of water for recharge of ground water? (5)
- Q4.** How to do micro-planning in ground water management. (5)
- Q5.** What do you mean by participatory irrigation management? (5)
- Q6.** Hydrological cycle - How it is affecting groundwater Management? (5)

Part C**(Maximum Marks: 30)****Answer any three of the following in detail.**

- Q7.** What are different kind of challenges India is going to face in 21st century with respect to groundwater and irrigation management and how the problem could be reversed? (10)
- Q8.** Discuss the most challenges community are facing in managing its groundwater resources? (10)
- Q9.** What do you mean by water budget? Explain its different component. (10)
- Q10.** Water User Association (WUA) has been instrumental to engage community for managing ground water in many parts of the country and globe? As a manager describe its characteristics, role and challenges they faced in implementing the concept at grassroot level. (10)
- Q11.** What is Participatory Irrigation Management? How marginalized and small farmers can be benefitted by PIM Act. (10)
- Q12.** Write short notes on the following (Each carries 2 marks) (10)
- (i) Contour bunding.
 - (ii) Types of the aquifer and their characteristics
 - (iii) Hydrological cycle and its effect on groundwater
 - (iv) Specific Yield
 - (v) Specific Retention