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B.E / B.Tech/ B. Arch (Full Time) ARREAR EXAMINATIONS APR/MAY 2019

AGRICULTURAL AND IRRIGATION ENGINEERING

SEMESTER VI

AI 8751 PARTICIPATORY WATER RESOURCES MANAGEMENT

(Regulation 2012)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Give a comprehensive definition of food security.
2. What is meant by stratification?
3. List down the water use activities practiced in tropical zones.
4. Write the roles and responsibilities of CADA.
5. Write short note on "National Drinking Water Mission"
6. Write a short note on irrigation agency.
7. Explain briefly membership in farmers' organisation.
8. Briefly write about melons on the wine
9. Write the roles of National Irrigation Administration.
10. Write a short note on the objectives of irrigation management.



Part - B (5 x 16 = 80 marks)  
(Question No.11 is Compulsory)

11. Critically analyse the different strategies to overcome the common challenges in water resources management by way of explaining its benefits. 16
12. I. a Describe the existing alliance between technocrats, bureaucrats and WUA's in irrigation management in developing the Countries 8  
b Examine the benefits of stakeholders participation in water resources management with examples 8  
(OR)  
II. a Write in detail the different structure related functions of irrigation system. 10  
b Describe the different stages organizational activities shedding special light on decision-making. 6
13. I. a Explain conflict resolution citing the example of any inter-basin conflict in India. 8  
b Discuss how the historical and socio-cultural factors in the environment affect the context of participation. 8  
(OR)  
II. a Elucidate how democratization of irrigation systems results in sustainable farming. 8  
b Describe the positive and negative effects of Green Revolution. 8

14. I. a Compare and contrast the water policy frameworks of India with that of Tamilnadu State water policy. 8
- b Examine the significance of bureaucratic reorientation. 8
- (OR)
- ii. a Analyse the importance of WUA and highlight its hierarchy. 8
- b Explain IAMWARM with its different goals. 8
15. I.a Describe the different roles of women in water management aspects. 6
- b Critically evaluate the different levels of irrigation system and its water management activities. 10
- (OR)
- II a. List down different styles of leaders and leadership responsibilities in organizational set up. 10
- b. Describe how the social stratification influence the process of development in farming? 6

