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|---|---|----|-----|
| 12. Distinguish between levees and flood walls.                                 | 2 | K2 | CO1 |
| 13. Define consumptive and non-consumptive uses of water with one example each. | 2 | K1 | CO2 |
| 14. Recall the salient features of national water policy.                       | 2 | K1 | CO2 |
| 15. Define delta and base period.   | 2 | K1 | CO3 |
| 16. List any two merits and demerits of irrigation practices.                   | 2 | K1 | CO3 |
| 17. Compare the Weir and Barrage.   | 2 | K2 | CO4 |
| 18. What are impounding structures?   | 2 | K1 | CO4 |
| 19. Define canal outlets.   | 2 | K1 | CO5 |
| 20. State the basic assumptions of Lacey's regime theory in canal design.       | 2 | K1 | CO5 |
| 21. What is meant by Participatory Irrigation Management (PIM)?                 | 2 | K1 | CO6 |
| 22. Define lift irrigation.   | 2 | K1 | CO6 |

**PART - C (6 × 11 = 66 Marks)**

Answer ALL Questions

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|---|----|----|-----|
| 23. a) Discuss how integrated water resources management helps in achieving sustainable development in India. | 11 | K2 | CO1 |
| <b>OR</b>   |    |    |     |
| b) Explain design flood and discuss the methods used for its estimation.                                      | 11 | K2 | CO1 |
| 24. a) Discuss the economics of water resources planning.   | 11 | K2 | CO2 |
| <b>OR</b>   |    |    |     |
| b) Summarize the consumptive use of water and discuss the factors affecting it.                               | 11 | K2 | CO2 |
| 25. a) Discuss how improper irrigation practices lead to water logging and salinity problems.                 | 11 | K2 | CO3 |
| <b>OR</b>   |    |    |     |
| b) Classify the different types of irrigation efficiencies.   | 11 | K2 | CO3 |
| 26. a) Summarize the different types of impounding structures used in canal irrigation systems.               | 11 | K2 | CO4 |
| <b>OR</b>   |    |    |     |
| b) Explain the requirement for canal lining and give its advantages and disadvantages.                        | 11 | K2 | CO4 |
| 27. a) With a neat sketch, discuss the types of cross drainage works that are necessary on a canal alignment. | 11 | K2 | CO5 |
| <b>OR</b>   |    |    |     |
| b) Compare Kennedy's and Lacey's regime theory.   | 11 | K2 | CO5 |
| 28. a) Describe the structure, function, and maintenance of tank irrigation systems.                          | 11 | K2 | CO6 |
| <b>OR</b>   |    |    |     |
| b) Explain the concept and framework of Participatory Irrigation Management (PIM).                            | 11 | K2 | CO6 |