

DEPARTMENT OF AI&DS, AI&ML, CSE & IT
QUESTION BANK

SUBJECT CODE: 23CH6603

YEAR/SEMESTER: III/VI

SUBJECT NAME: WATER AND SOIL CONSERVATION

UNIT-I WATER CONSERVATION

This unit focuses on the short and long-term water harvesting techniques and sprinkle, drip and micro irrigation systems.

PART-A

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|---------------------------------|---|----|
| 1 | Soil and water resources | K1 |
| 2 | What is soil? Mention any two important functions of soil. | K1 |
| 3 | What is soil erosion? State any two causes of soil erosion | |
| 4 | Define water harvesting. | K1 |
| 5 | Better life styles require more fresh water. Justify your answer. | K2 |
| 6 | Explain the various techniques of water harvesting. | K2 |
| 7 | Write about rain water harvesting and state its objectives | K1 |
| 8 | Adopt a method for collecting rain water from roof of the building. | K2 |
| Irrigation Principles: | | |
| 9 | What is irrigation? Why is irrigation needed for agricultural development? | K1 |
| 10 | Explain about irrigation engineering and irrigation development. | K1 |
| 11 | List out the advantages and disadvantages of irrigation. | K2 |
| 12 | How irrigation profoundly affects the vulnerability of the land to erosion? | K2 |
| 13 | What are the direct effects of deposition on the irrigation? | K2 |
| 14 | Choose some developmental parameters to maintain irrigation practices. | K2 |
| 15 | Outline the schemes for irrigation systems development and management? | K2 |
| 16 | Water irrigation management is important for crops. | |
| | Why? A | |
| 17 | Irrigation process helps to revegetate disturbed soils in dry area. Elaborate. | K2 |
| 18 | List out some important water efficient irrigation system. | K1 |
| Surface Irrigation | | |
| 19 | Which crops are suitable for surface irrigation? | K1 |
| 20 | What are the advantage and disadvantages of surface irrigation? | K1 |
| 21 | Justify why the surface irrigation is inefficient? | K2 |
| 22 | What are the factors that affect the efficiency of water usage in surface irrigation? | K2 |
| 23 | What type of surface irrigation is ideal for irrigating rice? | K2 |
| 24 | Sprinkler irrigation .Mention the advantages and disadvantages of Sprinkler irrigation. | K1 |
| 25 | Which crop is suitable for drip irrigation? What is the principle of drip irrigation? | K2 |
| 26 | Drip irrigation is a very efficient way to irrigate crops". Justify | K2 |
| | Drip irrigation prevents erosion and nutrient runoff. Comment. | K2 |
| Micro irrigation: | | |
| 27 | Which irrigation is micro type irrigation? Justify it. | K2 |
| 28 | Mention the features of micro irrigation system. | K2 |
| Benefits of Water Conservation: | | |
| 29 | What are the benefits of water conservation? | K1 |
| 30 | Why should we conserve water? | K2 |

PART-B

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| 1. | Explain the principles of rain water harvesting by Roof top method. Illustrate with an example. | 16 | K2 |
| 2. | Discuss in detail about the water harvesting by Runoff method with its advantages. | 16 | K4 |
| 3. | Elaborate in details about problems caused by deposition of sediments in irrigation system. | 16 | K3 |
| 4 | Explain in brief about surface irrigation and its advantages and disadvantages. | | K2 |
| 5 | Explain the working of sprinkler irrigation system with a neat sketch. | 8 | K2 |
| | How many types of sprinkler irrigation are there? Explain in detail. | 8 | K4 |
| 6 | Evaporation losses occurring in sprinkler irrigation but do not occur in drip irrigation. Justify and explain with the help of neat sketches. | 16 | K3 |
| 7 | Discuss briefly the benefits as well as the ill effects of irrigation system. | 8 | K2 |
| 7 | Give the difference between “Sprinkler Irrigation System” and “Drip Irrigation System”. | 8 | K4 |
| 8 | Briefly explain about micro irrigation and its features and types. | 10 | K2 |
| 8 | Write a detailed note on benefits of water conservation. | 6 | K2 |