

8. _____ is the process of application of water soluble through drip irrigation system CO4- R
- (a) Chemigation (b) Fertigation (c) chlorination (d) acidification
9. The largest crop area covered by drip irrigation in India is under CO5- R
- (a) plantation crops (b) orchards (c) vegetable crops (d) fiber crops
10. The J-lock dripper of Jain make is of _____ type emitter CO5 -R
- (a) self-flushing (b) pressure compensating
- (c) clog resistant (d) non-pressure compensating

PART – B (5 x 2= 10Marks)

11. What is priming and how to rectify the problems in pump? CO1- U
12. write about repair and maintenance of valve? CO2- U
13. Differentiate between Traditional and Micro irrigation methods? CO3- U
14. Draw a schematic diagram of media filter? CO4- U
15. List out the Components of Sprinkler irrigation? CO5- R

PART – C (5 x 16= 80Marks)

16. (a) What is the Principle of operation centrifugal pump Draw a sketch of and label its parts? CO1- U (16)

Or

- (b) Briefly explain water lifting technology traditional methods? CO1- U (16)

17. (a) Briefly explain & draw a sketch of Pressure relief valve- Gate valve? CO2 -U (16)

Or

- (b) Briefly explain & draw a sketch of Isolated valve- Non return valve?. CO2 -U (16)

18. (a) Define Micro irrigation? Comparison between Traditional and Micro irrigation methods? CO3- U (16)

Or

- (b) Merits and demerits of micro-irrigation system? CO3 -U (16)
19. (a) Hydraulic Design and Layout of Drip Irrigation System? CO4- Ana (16)
- Or
- (b) Considered the area of 1 ha square area planted with coconut with spacing of 7.5 m x 7.5 m. Design drip irrigation system? CO4 -Ana (16)
20. (a) Explain about Operation and maintenance of Sprinkler irrigation system? CO5- U (16)
- Or
- (b) Layout-Components of sprinkler irrigation system, explain with neat sketches CO5- U (16)

