Karunya University
(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

End Semester Examination – November / December 2008

| | oject Title: oject Code: | WATER SUPPLY ENGINEERING CE224 Max | Time : 3 hours |
|-----|---|--|----------------|
| | | Answer ALL questions | |
| | | $\underline{PART} - A (10 \times 1 = 10 \text{ MARKS})$ | |
| 1. | What is the | design period? | |
| 2. | Write the broad classification of water analysis. | | |
| 3. | Write the different sources of water. | | |
| 4. | What are the different types of tube wells? | | |
| 5. | The sizes of the steel pipe are ranging from to | | |
| 6. | Name the formula used for the hydraulic design of pressure system. | | |
| 7. | What is the sedimentation? | | |
| 8. | Micro organism and colloidal matters are removed by process. | | |
| 9. | Dissolved oxygen and carbon dioxide are removed by process. | | |
| | Name any two materials used for lining of pipes. | | |
| | | $PART - B (5 \times 3 = 15 MARKS)$ | |
| 11. | What are the | ne types of demands to be considered for a water supply scheme? | |
| | . What do you mean by infiltration galleries? | | |
| | What are the drawbacks of gravity system? | | |
| | What are the disadvantages of mechanical flocculators? | | |
| | What are the advantages of combined system? | | |
| | | $\underline{PART - C \ (5 \times 15 = 75 \text{ MARKS})}$ | |
| 16. | Explain the | e different types of physical and chemical tests carried out for wate (OR) | r analysis. |
| 17. | Explain the | different population forecasting methods. | |
| 18. | - | n the determination of reservoir capacity with the help of mass cur n the different types of tube wells with neat sketches. (OR) | ve. (5) (10) |
| 19. | Explain the | different sources of water. | |
| 20. | List the different types of piping materials. Explain any five with their merits and demerits. (OR) | | |
| 21. | Explain the | different types of appurtenances of pipes with neat sketches. | |
| 22. | Explain the | working of rapid sand filter with neat sketch. (OR) | |
| 23. | Draw the la | yout of water treatment plant and explain its components. | |
| 24. | - | n the different layout of distribution systems. are the main functions of the storage and distribution reservoirs? (OR) | (10) (5) |

25. a. Explain the different methods used for the analysis of distribution system.

Write the different corrosion control methods.

b.

(10)

(5)