

Question Bank (I scheme)

Name of subject: Plant Utility
Subject code: 22311

Semester: Third
Course: CH

Unit Test 2 Unit 3- Industrial Air (10)

2 Marks question

1. Give uses of compressed air.
2. Give uses of process air.

4 Marks question

3. Explain working of cyclone separator.
4. Explain working of electrostatic precipitator. (any one)
5. Explain single acting reciprocating air compressor.

Unit 4- Refrigeration (12)

2 Marks question

6. Define tons of refrigeration and COP.
7. Write industrial application of refrigeration.
8. A refrigerator is working on reversed Carnot cycle between the temperature of 30°C to -10°C . Calculate C.O.P.
9. Draw the diagram of vapour compression refrigeration system.

4 Marks question

10. Give 6 properties of ideal refrigerant.
11. Explain vapour compression refrigeration system.
12. Give the classification of refrigerants with example.
13. Explain vapour absorption refrigeration system.
14. Explain Bell Coleman cycle.

Unit 5- Psychrometry (12)

2 Marks question

15. Define absolute humidity, relative humidity.
16. Explain evaporative cooling.

4 Marks question

17. Draw the diagram of induced draft cooling tower and mark the parts
18. Draw the diagram of forced draft cooling tower and mark the parts
19. Explain the parts of a cooling tower.
20. Explain the use of humidity chart.