CBSE Class 12 Air-Conditioning and Refrigeration 2011 - Set 112

Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 3 Hours **Maximum Marks: 40**

General Instructions

(i) This question paper contains 8 questions.

(ii) Attempt any five questions. Each question carries 8 marks.

(iii) Follow the choices within the questions. Marks are indicated against each question or part.

Questions

Note : Attempt any five questions.

1. Explain the following processes and show the same on the psychrometric chart :

1(a). Sensible heating

1(b). Heating and humidification

2. With the help of a neat sketch, describe a solenoid valve.

3(a). Differentiate between sensible heat gain and latent heat gain.

3(b). Describe a drier with the help of a neat sketch.

4(a). Explain room sensible heat factor.

4(b). Describe the working of an evaporative condenser.

5(a). What is a secondary refrigerant ? Give advantages of secondary refrigerants.

5(b). Describe a flooded type evaporator.

6(a). Give the desirable properties of insulating materials.

6(b). Explain the working principle of a vapour absorption system.

7(a). Draw the layout of a cold storage.

7(b). How is leakage of Freon-12 detected ?

8. Briefly describe the following processes :

8(a). Charging the system through suction valve

8(b). Descaling of a condenser

- End of Question Paper -