CBSE Class 12 Air-Conditioning and Refrigeration 2010 - Set 112

Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

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

General Instructions

(i) Attempt any five questions.

(ii) All questions carry 8 marks. Follow any internal choices given in the questions.

Questions

Note : Attempt any five questions.

1. What are sensible heat load and latent heat load ? Give the sources of heat load.

2(a). Describe an air washer.

2(b). Explain the process of sensible cooling, and show it on psychrometric chart.

3(a). Compare a water-cooled condenser with an air-cooled condenser.

3(b). Give the desirable properties of insulating materials.

4. Explain the working of a high pressure float valve with the help of a neat sketch.

5(a). Explain the difference between a dry and a flooded type evaporator.

5(b). Give the desirable properties of a good refrigerant.

6(a). Draw the layout of an ice plant.

6(b). What are the advantages of vapour absorption system ?

7. Briefly answer the following :

(a) Define bypass factor.

(b) Give the location of a condenser in a refrigeration system.

(c) Give the use of a capillary tube.

(d) Name the refrigerant recommended for cold storage.

8. Describe briefly the following processes :

8(a). Defrosting of a refrigeration system.

8(b). Charging the system through suction valve.

- End of Question Paper -