CBSE Class 12 Air-Conditioning and Refrigeration 2011 - Set 113

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. All questions carry equal marks.

1(a). Distinguish between the requirements of air-conditioning in winter and summer. How are these fulfilled ?

1(b). Explain the function of condenser in a refrigeration system. Where do we use air-cooled condensers ?

2(a). Explain various methods of air distribution in an air-conditioning system.

2(b). What are the causes of air pressure drop in ducts ?

3(a). Explain the function of fans and blowers in an air-conditioning system. What type of fans are commonly used ?

3(b). Explain the function of filters in an air-conditioning system. What types of filters are commonly used ?

4. Explain the function of refrigeration and air-conditioning controls. Explain various devices and their suitability.

5. Explain the function and working of a solenoid valve.

6. What is the function of relays in a motor ? Give the types of relays used.

7. Differentiate between break-down maintenance and preventive maintenance. When do we use these maintenance procedures ?

8. Write short notes on any **two** of the following : 4+4

8(i). Packaged unit

8(ii). Use of chokes

8(iii). Humidistat

8(iv). Charging of gas in a refrigerator

- End of Question Paper -