

# CBSE | DEPARTMENT OF SKILL EDUCATION

## AIR CONDITIONING AND REFRIGERATION

### (SUBJECT CODE-827)

#### CLASS XII (SESSION 2021-2022) MARKING SCHEME FOR TERM -1

Max. Time Allowed: 90 Minutes (1½ Hrs.)

Max. Marks: 30

#### General Instructions:

1. Please read the instructions carefully
2. This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
3. Section A is of 05 marks and has 06 questions on Employability Skills.
4. Section B is of 20 marks and has 25 questions on Subject Specific Skills.
5. Section C is of 05 marks and has 07 competency-based questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each section/question.
8. All questions must be attempted in the correct order

#### SECTION A

Answer any 5 questions out of the given 6 questions on Employability Skills (1 x 5 = 5 marks)

1.	ANSWER-(d)Activities, Books and Music	
2.	ANSWER-(a)Standard bar	1
3.	ANSWER-(a)Two	1
4.	ANSWER-(d)Ctrl + Z	1
5.	ANSWER-(b)Society, Family and Culture	1
6.	ANSWER-(c)Eight	1

#### SECTION B

Answer any 20 questions out of the given 25 questions (1 x 20 = 20 marks)

7.	ANSWER-(b)Condenser	1
8.	ANSWER-(c)Latent and sensible heat load both	1
9.	ANSWER-(d)Water	1
10.	ANSWER-(b)Increase	1
11.	ANSWER-(a)Forced convection air cooled condensers	1
12.	ANSWER-(d)Thermal insulating material	1

13.	ANSWER-(b)Below the D.P.T. of air	1
14.	ANSWER-(c)Chilling of milk	1
15.	ANSWER-(c)Automatic expansion valve	1
16.	ANSWER-(c)Ducts	1
17.	ANSWER-(d)Natural convection condenser	1
18.	ANSWER-(b)Increase the heat transfer rate	1
19.	ANSWER-(b)Dry expansion evaporator	1
20.	ANSWER-(d)Air cleaning, Humidification and Dehumidification	1
21.	ANSWER-(c)Plate type natural convection evaporator	1
22.	ANSWER-(d)Capillary tube	1
23.	ANSWER-(c)Right to left	1
24.	ANSWER-(a)Loop perimeter system	1
25.	ANSWER-(c)Expansion device	1
26.	ANSWER-(b)Stream	1
27.	ANSWER-(c)Liquid refrigerant	1
28.	ANSWER-(a)Left to right	1
29.	ANSWER-(b)Dirt, Moisture and Foreign particles	1
30.	ANSWER-(b) Thermal conductivity	1
31.	ANSWER-(d) D.B.T. of air	1

**SECTION C**  
**(COMPETENCY BASED QUESTIONS)**

**Answer any 5 questions out of the given 7 questions**

**(1 x 5 = 5 marks)**

32.	ANSWER-(c) Sensible and latent heat both	1
33.	ANSWER-(b) D.B.T. of air	1
34.	ANSWER-(c) Radiation	1
35.	ANSWER-(d) Specific humidity	1
36.	ANSWER-(b) Anemometer	1
37.	ANSWER-(d) Fe	1
38.	ANSWER-(b) Diameter of the capillary tube	1