

CBSE Class 12 Air-Conditioning and Refrigeration 2022 - Set 351 - Compartment



Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 1.5 Hours

Maximum Marks: 30

General Instructions

- (i) Please read the instructions carefully.
- (ii) This question paper is divided into three sections: Section A, Section B and Section C.
- (iii) Section A carries 5 marks and has 6 questions on Employability Skills. Questions 1–4 carry 1 mark each; attempt any three. Questions 5 and 6 carry 2 marks each; attempt any one.
- (iv) Section B carries 17 marks and has 16 questions on Subject Specific Skills. Questions 7–13 carry 1 mark each; attempt any five. Questions 14–18 carry 2 marks each; attempt any three. Questions 19–22 carry 3 marks each; attempt any two.
- (v) Section C carries 8 marks and has 3 Competency-Based Questions. Questions 23–25 carry 4 marks each; attempt any two.
- (vi) Follow the instructions given in the respective sections.
- (vii) Marks allotted are mentioned against each section/question.

Section A

Answer any **3** questions out of the given **4** questions.
 $3 \times 1 = 3$

1. Who observes green activities in an organisation ?

2. What do you mean by “start-up” ?

3. Who is a green collar worker ?

4. Write any two personal barriers in entrepreneurship.

Answer any **1** question out of the given **2** questions.
 $1 \times 2 = 2$

5. List any four green jobs in building and construction.

6. List any four characteristics of a successful entrepreneur.

Section B

Answer any 5 questions out of the given 7 questions.
 $5 \times 1 = 5$

7. Define air-conditioning system.

8. Write the name of the application of refrigeration in which freezing tanks are used.

9. Write the name of the device used to start the compressor motor of a domestic refrigerator.

10. Write the names of any two refrigerants used in an ice plant.

11. HP and LP cut-outs are also known as _____.

12. What is a Grill ?

13. Write the function of an OLP.

Answer any 3 questions out of the given 5 questions.
 $3 \times 2 = 6$

14. Write in brief about "All Air System" used in air-conditioning.

15. Write the function of LP cut-out in a refrigeration system.

16. Write any two points which are considered in design of a cold storage.

17. Write brief description of a current starting relay.

18. Write the names of any two secondary refrigerants.

Answer any 2 questions out of the given 4 questions.
 $2 \times 3 = 6$

19. Explain FCU with the help of a neat sketch.

20. What is pasteurisation ? Explain the various steps used in pasteurisation.

21. Explain packaged air-conditioning system.

22. Write the properties and uses of R-12 as a refrigerant. (any three)

Section C

Answer any **2** questions out of the given **3** questions.
 $2 \times 4 = 8$

23. Write the name of the refrigeration system used in a cold storage, and explain it.

24. Explain the properties of an ideal refrigerant.

25. Make a list of equipment used in central air-conditioning system.

- End of Question Paper -