



DIPLOMA IN REFRIGERATION & AIR CONDITIONING

CENTRALIZED QUESTION BANK

1221234520 - REFRIGERATION PRACTICAL

**DIRECTORATE OF TECHNICAL
EDUCATION GOVERNMENT OF
TAMILNADU**

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Refrigeration & Air conditioning

Subject : Refrigeration practical

QP Code : 1221234520

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Study of service valves and installation of gauge manifold set in open type system test rig.

Allocation Of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

DIPLOMA END SEMESTER / YEAR EXAMINATION – 2025

Course: Refrigeration & Air conditioning

Subject : Refrigeration practical

QP Code : 1221234520

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Determination of percentage running time of a refrigerator for a typical thermostat setting

Allocation Of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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QP Code : 1221234520

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Determination of COP, Refrigeration effect & Capacity of sealed system

Allocation Of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Determination of Capacity and actual COP of open type system with capillary tube as expansion device

Allocation Of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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QP Code : 1221234520

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Determination of Capacity and actual COP of open type system with automatic expansion valve as expansion device

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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QP Code : 1221234520

Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Determination of Capacity and actual COP of open type system with TEV as expansion device

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Session:

Max Marks: 100

Answer the following Questions

1. Test on OLP, current coil relay and PTC relay of a refrigeration system.

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Session:

Max Marks: 100

Answer the following Questions

1. Electrical circuit of refrigerator and water cooler

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Session:

Max Marks: 100

Answer the following Questions

1. Determination of CSR terminal of a refrigeration compressor

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Date :

Session:

Max Marks: 100

Answer the following Questions

1. Wiring, Starting and Running of refrigeration system with RSIR starting circuit.

Allocation of marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Time : 3 Hours

Date :

Session:

Max Marks: 100

Answer the following Questions

1. Wiring, Starting and Running of refrigeration system with CSIR starting circuit.

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100

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Date :

Session:

Max Marks: 100

Answer the following Questions

1. Fault diagnosis & remedies of a refrigerator.

Allocation of Marks

Sl. No	Description	Max Marks
1	Aim & Procedure	15
2	Observation/Calculation/Fault diagnosis	30
3	Execution	35
4	Result	10
5	Viva-voce	10
Total		100