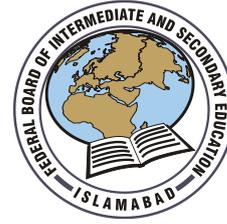


Version No.			

ROLL NUMBER						



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Answer Sheet No. _____

Sign. of Candidate _____

Sign. of Invigilator _____

Applied HVACR SSC-I
SECTION – A (Marks 06)
Time allowed: 10 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

Q.1 Fill the relevant bubble for each part. All parts carry one mark.

- 1) Alphabet 'V' in 'HVACR' stands for:

(a) Volume <input type="radio"/>	(c) Velocity <input type="radio"/>
(b) Ventilation <input type="radio"/>	(d) Vacuum <input type="radio"/>
- 2) Ability of a body to do work is known as:

(a) Heat <input type="radio"/>	(c) Energy <input type="radio"/>
(b) Work <input type="radio"/>	(d) Power <input type="radio"/>
- 3) The change of phase from vapour to liquid is known as a:

(a) Evaporation <input type="radio"/>	(c) Expansion <input type="radio"/>
(b) Compression <input type="radio"/>	(d) Condensation <input type="radio"/>
- 4) Pressure and temperature of refrigerant rises during:

(a) Evaporation <input type="radio"/>	(c) Expansion <input type="radio"/>
(b) Compression <input type="radio"/>	(d) Condensation <input type="radio"/>
- 5) Which of the following refrigerant type is harmful for ozone:

(a) CFC <input type="radio"/>	(c) HFC <input type="radio"/>
(b) Hydrocarbons <input type="radio"/>	(d) HCFC <input type="radio"/>
- 6) Phase change occurs at:

(a) Different Temperature <input type="radio"/>	(c) Constant Temperature <input type="radio"/>
(b) Low Temperature <input type="radio"/>	(d) High Temperature <input type="radio"/>



Federal Board SSC-I Examination Applied HVACR

Time allowed: 2.00 hours

Total Marks: 24

Note: Answer any seven parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 14)

Q.2 Attempt any **SEVEN** parts from the following. All parts carry equal marks. Be brief and to the point. **(7 x 2 = 14)**

- i. Define scope of HVACR.
- ii. Define Refrigeration.
- iii. Enlist sources of HVACR.
- iv. Define swaging.
- v. Define Flaring.
- vi. Define Heat.
- vii. Enlist methods of heat transfer.
- viii. Enlist different types of pressure measuring devices.
- ix. What is the role of expansion in refrigeration cycle?
- x. Describe working principle of evaporator.

SECTION – C (Marks 10)

Note: Attempt any **TWO** questions. All questions carry equal marks.

(2 x 5 = 10)

Q.3 Write a detailed note on energy and its types.

Q.4 Write a note on the following:

- i. Pascal's law
- ii. Dalton's Law.

Q.5 Explain working principle of refrigeration cycle.
