

- Q.12 What are soldering defects? Describe the remedies for any two soldering defects.

Q.13 What is megger? Write the use of megger meter.

Q.14 What is metal-sheathed wiring? Write its two advantages and disadvantages.

Q.15 What is the electrical wiring? Write the various factors, which affect the selection of wiring.

Q.16 Write the general writing condition as per IE rules for the " Domestic heating and cooking appliances".

Q.17 What are the different types of earthing? Explain any two.

Q.18 Write the name of various faults, which may occur in earthing. Write the causes and remedies for any two faults.

## **SECTION-C**

**Note:** Long answer questions. Attempt any one question out of two questions. (1x10=10)

- Q.19 Write in detail about construction and working principle of moving coil voltmeter.

Q.20 What are the concepts of household wiring and explain?

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DVOC (Level 4)

# **1st Sem. / Trade: Refrigeration and Air Conditioning Subject : Engineering Science**

Time : 2 Hrs.

M.M. : 50

SECTION-A

**Note:** Very short questions. Attempt all ten questions.  
 $(10 \times 1 = 10)$

- Q.1 Define Soldering
  - Q.2 What is Flux
  - Q.3 What is ammeter?
  - Q.4 What do you understand by induction?
  - Q.5 Draw the graphical symbol for the two -pole switch.
  - Q.6 Draw the graphical symbol for wattmeter.
  - Q.7 What is capping?
  - Q.8 What is the importance of fuse?
  - Q.9 Why earthing is important for wiring system?
  - Q.10 What is pipe earthing?

## **SECTION-B**

**Note:** Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

- Q.11** Write the characteristics of a good brazing joint.

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