15EME14/24

(06 Marks)

(04 Marks)

(06 Marks)

(08 Marks)

(08 Marks)

(04 Marks)

(06 Marks)

(06 Marks)

(08 Marks)

(08 Marks)

(08 Marks)

(08 Marks)

(08 Marks)

(04 Marks)

(04 Marks)

(04 Marks) (04 Marks)

(08 Marks)

Indicate the applications of Ferrous and Non – ferrous metals.

With a neat sketch, explain Oxy - Acetylene Welding process.

b. Distinguish between Soldering and Brazing.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

7

USN

OR

Explain the principle of Electric Arc Welding, with a neat sketch. (08 Marks) 8

Define Composite Material. Indicate the applications of Composite materials and its (08 Marks) limitations.

Module-5

What is Refrigeration? List out the properties of a good refrigerant. (06 Marks)

With a neat sketch, explain the working principle of Vapour Absorption Refrigeration b. (10 Marks) System.

OR

Define 10 a.

Refrigerating effect.

COP. ii)

iii) Ton of Refrigeration.

iv) Ice making capacity.

(08 Marks)

b. With a neat sketch, explain the principle of Working of a room Air Conditioner. (08 Marks)