

No. of Printed Pages : 4

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Roll No.

DVOC (Medical Imaging Technology)

**Subject : Soldering & Desoldering Components &
Emergency Actions - II**

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Multiple Choice questions. All questions are compulsory. (5x1=5)

- Q.1 Approximately how many numbers of gates are incorporated in SSI chip?
- a) 12
 - b) 100
 - c) more than 100
 - d) more than 1000
- Q.2 What is the use of notch and dot in DIP ICs?
- a) Determine the pin configuration
 - b) Designed to represent device type
 - c) Represent property of IC
 - d) Find the pin number
- Q.3 Out of the following, which type of fire extinguisher must not be used in fires generated due to electricity?
- a) carbon tetrachloride type
 - b) foam type
 - c) sand filled type
 - d) CO₂ type

(60)

(4)

188563

(1)

188563

Q.4 Out of following which of following is a type of fire extinguisher?

- a) Type A
- b) Type B
- c) Type C
- d) All of the above

Q.5 The purpose of using flux in soldering is _____

- a) increase fluidity of solder metal
- b) fill up gaps left in a bad joint
- c) prevent oxides forming
- d) wash away surplus solder

SECTION-B

Note: Objective type questions. All questions are compulsory. $(5 \times 1 = 5)$

Q.6 What is the full form of SMD?

Q.7 Name any two types of IC package.

Q.8 What is the purpose of crimping tool?

Q.9 Name any two clamping tools used in desoldering.

Q.10 Why we use fire alarm?

SECTION-C

Note: Short answer type questions. Attempt any six questions out of Eight questions. $(6 \times 5 = 30)$

Q.11 How you can identify the SMD components on the terminal levels?

Q.12 Discuss the basic steps involved in de-soldering a component on PCB.

Q.13 What are the benefits of flux usage in soldering process.

Q.14 Write a short note on importance of Emergency exit doors.

Q.15 Explain the methodology to identify various connections required for SMD soldering station.

Q.16 Explain a method to identify 3-terminal SMD components.

Q.17 Explain the various medical services required in an industry in case of emergency.

Q.18 Discuss the location of fire alarm pull stations in industries.

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. $(1 \times 10 = 10)$

Q.19 Explain the procedure for soldering the SMD components on given PCB.

Q.20 Discuss in detail, the various medical services required on industrial level scenario.