

Q.18 Explain any five safety precautions to be taken while soldering

SECTION-D

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

Q.19 Explain the necessary settings on SMD on soldering station to de-solder various ICs of different packages by choosing different clamps in detail.

Q.20 Discuss in detail, the identification of SMD components on the basis of terminals. Also give examples of various types of SMD components.

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Dvoc - Level -5

2nd Sem / Medical Image Technology

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

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Multiple choice questions. All questions are compulsory. (5x1=05)

Q.1 Approximately how many number of gates are incorporated in LSI chip?

- a) 10-50 b) 50-100
- c) 100-500 d) 100-9999

Q.2 Out of following which of following is not type of fire extinguisher?

- a) Type A b) Type Z
c) Type C d) Type D

Q.3 Which of the following is not a material used as flux material in soldering?

- a) tin-iron b) tin-lead
c) tin-silver d) tin-lead-zinc

Q.4 What is the range of working temperature for soldering process?

- a) $15^{\circ} - 50^{\circ} \text{C}$ b) $70^{\circ} - 100^{\circ} \text{C}$
- c) $180^{\circ} - 250^{\circ} \text{C}$ d) $300^{\circ} - 500^{\circ} \text{C}$

Q.5 Which of the following is a type of IC package?

- a) Dual Inline Package
- b) Single inline package
- c) Quad Flat Package
- d) All of the above

Section-B

Note: Objective type questions. All questions are

Compulsory. (5x1=05)

Q.6 What is the full form of SOT?

Q.7 What is 2-terminal SMD component?

Q.8 What do you mean by assembly point?

Q.9 Name any two materials used as flux in soldering.

Q.10 Tell any two ways to report emergencies in a welding industry.

SECTION-C

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

Q.11 Give the classification of SMD components on the basis of terminals.

Q.12 What are the differences between primary and secondary evacuation routes?

Q.13 Discuss the basic steps involved in de-soldering a component using surface mount technology

Q.14 Why emergency doors are necessary in crowded areas ?

Q.15 Give identification of crimping tools for various IC packages

Q.16 How reliable soldering practices are achieved in industry?

Q.17 How the location of fire extinguishers is identified in a welding industry?