

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

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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.

Dvoc - Level -5

2nd Sem / Medical Image Technology

Subject : Soldering & Desoldering Components & Emergency Actions

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

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

(100)

(4)

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(1)

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

- a) 15° - 50° C
- b) 70° - 100° C
- c) 180° - 250° C
- d) 300° - 500° 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?