

SECTION-B

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

- Q.11 List the tools and supplies required for SMD components soldering and de-soldering.
- Q.12 How will you identify the values of SMD resistors and capacitors?
- Q.13 Explain soldering process of surface mount chips on PCB.
- Q.14 Write the steps for setting the soldering station for SMD components soldering.
- Q.15 Name different types of switches used for panel board.
- Q.16 What are minimum requirements for emergency actions?
- Q.17 Identify different locations for the fire alarm pull stations in PCB assembly section of an industry.
- Q.18 What are the essential medical services required in a PCB soldering and de-soldering station?

SECTION-C

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

- Q.19 Explain various steps of soldering and de-soldering of Surface Mount Components. Also write the equipments used in this process.
- Q.20 Explain in detail the different emergency actions required in the PCB soldering & de-soldering section.

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Level 5 / 1st. Sem. / DVOC

Ref. & Air Cond., Medical Imaging Tech.

Subject : Soldering & De-Soldering Components & Emergency actions

Time : 2 Hrs.

M.M. : 50

SECTION-A

Note: Very short answer type questions. All questions are compulsory $(10 \times 1 = 10)$

- Q.1 The _____ chip usually packages several resistors with the same parameters together.
- Q.2 The color ring on the diode marks the direction of its _____ pole.
- Q.3 SMD transistors are also known as _____
- Q.4 Push button switches are hand operated _____ devices used for switches and switching circuits.
- Q.5 Define panel board.
- Q.6 Expand SPDT.
- Q.7 Define crimping tool.
- Q.8 Define emergency action plan.
- Q.9 What do you mean by fire extinguisher?
- Q.10 Define de-soldering.

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