

SECTION-D

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

- Q.19 Discuss in detail, the various types of PCBs. Give comparison in manufacturing these PCBs. Also mention the application of various types of PCBs.
- Q.20 Explain the various soldering and desoldering stations. Discuss the various specifications of station in detail. Also mention safety precautions to be taken during working on station.

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Roll No.

1st Sem / DVOC (Ref. & Air Cond.)

Subject : Soldering & Desoldering of Components - I

Time : 2 Hrs.

M.M. : 50

SECTION-A

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

- Q.1 Solder which is used for joining metal pieces is an alloy of
- a) iron and lead b) tin and lead
- c) zinc and iron d) tin and zinc
- Q.2 Out of following, identify the wrong type of soldering joint.
- a) Butt joint b) Lap joint
- c) Scarf joint d) Twisted joint
- Q.3 Which of the following is not a type of PCB?
- a) Single Layered b) Double Layered

- c) Flexible Layered d) Multi Layered

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 The main functions of Flux in soldering process is to _____

- a) keep the surface clean and oxide free
b) increase melting point
c) ensure proper texture
d) reduce temperature

SECTION-B

Note: Objective type questions. All questions are compulsory. (5x1=5)

- Q.6 What do you mean by soldering?
Q.7 Name different types of soldering tips.
Q.8 Name different types of defects arises in PCB manufacturing.

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Q.9 Give two applications of single layered PCB.

Q.10 Name any two different types of Soldering techniques.

SECTION-C

Note: Short answer questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 Discuss the various types of soldering guns?
Q.12 Discuss the basic steps involved in soldering a component on PCB.
Q.13 What are the benefits of flux usage in soldering process.
Q.14 Discuss the basic steps involved in de-soldering a component on PCB.
Q.15 Discuss the various soldering materials used along with their grading.
Q.16 What are the properties of soldering material?
Q.17 Discuss the de-soldering process using pump.
Q.18 Write a short note on SMD PCBs.

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