

- Q.17 How does we check for cold continuity of PCB?
- Q.18 Discuss the methods through which we can join the cracks on PCB.

SECTION-D

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

- Q.19 Explain with diagram, the different types of soldering guns on the basis of temperature and wattages.
- Q.20 Discuss in detail, the various types of PCBs. Give comparison in manufacturing these PCBs. Also mention the applications of various types of PCBs.

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Level 4, 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 Soldering is done on wire joints to improve.....
- a) Conductivity b) Tensile Strength
 - c) Ductility d) Malleability
- Q.2 What is full form of PCB?
- a) Process circuit board
 - b) Process control board
 - c) Printed circuit board
 - d) Printed control board
- Q.3 Out of the following, identify the wrong type of soldering tip.

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- a) Knife tip
- b) Square tip
- c) Conical
- d) Chisel

Q.4 What are the general categories of PCBs?

- a) Rigid
- b) Flex
- c) Metal-core
- d) All of these

Q.5 Which of the following are common defects found on PCB?

- a) Excessive soldering
- b) Cold joints
- c) Solder bridges
- d) All of these

SECTION-B

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

Q.6 Which material is used for flux in soldering process?

Q.7 What is the full form of SMD?

Q.8 Which one is the most common joint type is used in soldering?

Q.9 Give two advantages of multilayered PCB.

Q.10 Give two advantages of using desoldering pump.

SECTION-C

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

Q.11 What are the tools utilized in soldering technique?

Q.12 What do you mean by PCB? Give the differences between single and multilayered PCBs.

Q.13 What is Soldering flux? Discuss various types of flux.

Q.14 Discuss the safety precautions required during soldering.

Q.15 Give the applications of PCBs

Q.16 Give comparison between desoldering using pumps and wick.