**Week 4 Assignment 4**

The due date for submitting this assignment has passed. Due on 2019-02-27, 23:59 IST.

As per our records you have not submitted this assignment.

1) What is a primary function of a circuit board?
   - a. Mechanical Rigidity to the components
   - b. Render the system resistant to fire
   - c. Make system modular and portable in parts
   - d. Provide electrical connections between components and subsystems

   - a. 
   - b. 
   - c. 
   - d. 

   **No, the answer is incorrect.**

   **Score: 0**

   **Accepted Answers:**
   - d.

2) In the lecture, a 13” laptop motherboard for Apple MacBook Air was shown to be significantly smaller than that of Dell Insiron. What is the probably reason?
   - a. Alternate wiring material enabling thinner traces
   - b. More number of wiring layers
   - c. Lesser number of components
   - d. Miniaturized components

   - a. 
   - b. 
   - c. 
   - d. 

   **No, the answer is incorrect.**

   **Score: 0**

   **Accepted Answers:**
   - d.

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In a multi-layer board, how are connections made between intermediate layers?

- a. Vias
- b. No connection is possible between intermediate layers
- c. Fingers at the edge
- d. Drilling holes

No, the answer is incorrect.
Score: 0
Accepted Answers:

4) What are the important properties of a motherboard that need to be considered during design?

- a. Glass Transition temperature
- b. Dielectric constant
- c. Moisture and fire resistance
- d. All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:

5) Which glass is most widely used for making PCBs?

- a. C-glass
- b. D-glass
- c. E-glass
- d. S-glass

No, the answer is incorrect.
Score: 0
Accepted Answers:

6) Which process for copper foil generation is more suited for a smart watch?

- a. Electrodeposition
- b. Electroless plating
- c. Rolling
- d. Sheet Extrusion

No, the answer is incorrect.
Score: 0
Accepted Answers:
7) Which photolithographic process will you use in PCB manufacturing?
   a. Negative working
   b. Positive working
   c. Either of the above
   d. None of the above
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   c.

8) What happens to the copper that is etched away from the CCL after photolithography?
   a. Dumped into landfill
   b. Recycled to recover copper
   c. Dissolved copper in etchant used in chemical and process industries
   d. Used for busbar manufacturing in electrical transmission industry
   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   b.

9) How are through holes drilled in a PCB?
   a. Mechanical Drilling
   b. Laser drilling
   c. Punching
   d. End milling
   No, the answer is incorrect.
   Score: 0
What is the function of a solder mask in the PCB manufacturing process?

- Prevents solder bridging between conductive tracks
- Controls outer layer impedance
- Increases corrosion and flammability resistance
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- d.