

UNIT 4

MCQ'S:

1. **High current circuits are purposely located or placed near the edge of PCB in accordance to the supply lines for _____**
 - a) Removal of heat
 - b) Isolation of stray current
 - c) Reduction of path length
 - d) All of the above
2. **The actual cost of PCB can be evaluated on the basis of _____**
 - a) PCB size & material
 - b) Number of layers
 - c) Vias on PCB
 - d) All of the above
3. **Which type of PCB requires minimum soldering on component side in order to avoid replacement oriented difficulties?**
 - a) Single-sided PCB
 - b) Double-sided PCB
 - c) Both a and b
 - d) None of the above
4. **Metal surfaces of smaller areas embedded in PCB's are _____?**
 - a) Traces
 - b) Planes
 - c) Targets
 - d) Regions
5. **Where are the components placed on the board soldered board?**
 - a. Traces
 - b. Planes
 - c. Metal Pad
 - d. Regions
6. **How many layers does a PCB have?**
 - a. Single
 - b. Double
 - c. Multiple
 - d. All Mentioned Above
7. **What are the broad categories of PCBs?**

- a. Rigid
- b. Flex
- c. Metal-core
- d. All Mentioned Above

8. How a PCB board can be designed initially?

- a. Using a Hardware
- b. Using CAD Tools
- c. Using Electronic Devices
- d. Using Equipment's

9. What verifies whether the circuit connections work properly?

- a. Logical Presentation
- b. Layout
- c. Simulation
- d. Routing

10. What are the steps involved in PCB Layout?

- a. Setting Board Parameters
- b. Determining Outline
- c. Routing Components
- d. All Mentioned Above

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12. Which type of PCB has a single layer of conduction?

- a. Single-sided
- b. Double-sided
- c. Multilayer
- d. Rigid

13. _____ are used for Low-density Design requirements?

- a. Single-sided
- b. Double-sided
- c. Multilayer
- d. Rigid

14. What are the advantages of Single-side PCBs?

- a. **Cost-Effective**
- b. Hard to Manufacture
- c. Hard to Repair
- d. Difficult to Design

15. Conducting layer added on bottom and top of board in _____ PCBs.

- a. Single-sided
- b. **Double-sided**
- c. Multilayer
- d. Rigid

16. What connects the metallic parts on the Double-sided board of PCBs?

- a. Traces
- b. Planes
- c. Regions
- d. **Holes**

17. What are the various methods of mounting used in connecting PCBs?

- a. Surface Mount Technology
- b. Through-hole Technology
- c. **a & b**
- d. None

18. What are the various advantages of double-sided PCBs?

- a. Reduced Size
- b. More Flexible
- c. Compact Circuit
- d. **All Mentioned Above**

19. _____ is not the application of Multilayer PCB?

- a. **Amplifiers**
- b. Medical Equipment's
- c. Laptops
- d. GPS Trackers

20. PCB material must have _____?

- a. Slow Rise Time

- b. Fast Rise Time
- c. Fast Fall Time
- d. Slow Cut-off

21. Properly placed components on board during design give rise to _____?

- a. Better Performance
- b. Improved Signal Quality
- c. Increased Crosstalks
- d. a & b

22. What are the benefits of a well-fabricated PCB design?

- a. Time Saved
- b. Reduced Costs
- c. Hassle-free
- d. All Mentioned Above

23. Why is the color of the PCB green?

- a. Due to Components Used
- b. Due to Solder Masks
- c. Due to Fabrication
- d. Due to Assembly

24. PCB'S should be fabricated with..... layers.

- a. Odd number of layers
- b. Even number of layers
- c. Any number of layers
- d. All the above

25. Which of the PCB s are easier to repair?

- a. Single side
- b. Double-sided
- c. Multilayer
- d. Rigid

