

IPC CID EXAM STUDY GUIDE QUESTIONS AND ANSWERS 2025

The board material has significant influence on the electrical performance of the circuit from what two effects? -Correct Answer ✓dielectric constant and the loss tangent

What are the 4 types of build-up multilayers? -Correct Answer ✓Piercing post, Sequentially built-up multilayer, Passive substrate, Filled via sequential co-laminated substrate

The temperature at which an amorphous polymer changes from being a hard and relatively-brittle condition to be in a viscous or rubbery state -Correct Answer ✓Glass transition temperature (T_g)

Affects dimensional stability and changes the electrical characteristic in the material which can cause potential difficulties in assembly -Correct Answer ✓Moisture absorption

What are the 3 general methods of plating material on PCBs? -Correct Answer ✓Immersion, electroless, and electrolytic

What are the benefits of metallic coatings / final(surface) finish? -Correct Answer ✓Corrosion prevention, Improved long-term solderability

Simplest of the wet processes; involves a simple galvanic replacement reaction; the more noble metal in the solution picks up electrons from the less noble metal immersed in the solution and plates out -Correct Answer ✓Immersion Plating

Why would you use immersion plating? -Correct Answer ✓The thickness is limited to a very thin coating as it is a simple replacement reaction

Why is Immersion finishes more beneficial than HASL? -Correct Answer ✓Immersion has a flatter base for attachment

What are the assembly challenges/problems with HASL process? -Correct Answer ✓Coplanarity / solder thickness varies, solder crowning, less uniformity

Stencil fits flat on pad, opening is smaller than the land pattern in all dimensions - Correct Answer ✓Gasketing

What is the problem with gasketing in HASL? -Correct Answer ✓Uneven surfaces cause leakage of paste underneath the stencil

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Andhra Pradesh (India)



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