

CU 5292 Electromagnetic Interference and Compatibility

Important 2 Mark Questions

Unit I

1. What are the elements of interference?
2. Compare inter and intra EMI system.
3. List the types of susceptibility.
4. When does the coupling of EFT into electronic products occur?
5. What are basic differences are between conducted and radiated emissions?
6. What is Conducted coupling EMI?
7. How does EM radiation cause health hazards to human?
8. What is transient suppression?
9. How many types of EMI exist?
10. Define EMI and EMC.

Unit II

1. Mention the coupling mechanism employed for coupling electromagnetic source with supply network.
2. What is ground loop coupling?
3. Why does the magnetic flux due to the differential-mode current tend to subtract in the core?
4. List the typical modes of noise coupling.
5. Define ground coupled interference.
6. List examples for common ground impedance coupling.
7. Write the importance of field to cable coupling.
8. How field coupling affects the system?
9. Define the term cross talk.
10. Write the importance of field to cable coupling.

Unit III

1. State Murphys law.
2. Specify the grounding strategies for large system.
3. What is meant by shielding?
4. Why is a filter inserted between the sources and the load?
5. Classify EMI filters.
6. Define SEMCAP.
7. Draw the circuit diagram for isolation transformer.
8. What is an EMI gasket?
9. What are the advantages of multi point grounding?
10. What is the need for power supply filters to avoid CE?

Unit IV

1. Why EMI standards are required for residence?

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Notes

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Syllabus

Question Papers

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2. List few EMI standardizing organization.
3. Define class-B digital devices.
4. What does EMI standard address?
5. Define zoning.
6. How to avoid cross talk in PCB design?
7. Draw the general three-conductor transmission line, illustrating cross talk.
8. Explain the reference to a PCB layout the techniques to reduce trace impedance.
9. List the problems arise due to termination of PCB.
10. How does cable routing avoid EMI?

Unit V

1. What is the civilian STD test methods employed in testing antennas?
2. Give the various techniques used for measuring immunities of a system.
3. Write the use of decoupling capacitors.
4. Why is spectrum analyzer essentially a super heterodyne receiver?
5. What is the significance of narrow band test?
6. What is current probe? Give some guidelines to carry OATS.
7. How can you classify emission tests on the basis of bandwidth?
8. Name any two EMI standards.
9. List the possible errors in EMI testing.
10. What are class A devices with respect to FCC?