

NOTE:

- 1) Diagrams should be Neat and labeled.
- 2) All Questions are compulsory.
- 3) Right side indicates marks.

Q.1. Answer the following (Any two)

[10]

- a. Define embedded system and give difference between embedded system and general purpose computer system?
- b. Explain the difference between Big endian and Little endian?
- c. Explain USB as communication interface with diagram?
- d. Explain I2C in detail?

Q.2. Answer the following (Any two)

[10]

- a. Write short note on communication interface used in automobiles.
- b. Write short note on washing machine.
- c. Explain non-operational quality attributes?
- d. Write any five characteristics of embedded system.

Q.3. Answer the following (Any two)

[10]

- a. Explain build process of embedded program in detail?
- b. Write short note on device programmer.
- c. Explain compiling process in detail?
- d. Explain Remote-debugger and all its commands?

Q.4. Answer the following (Any two)

[10]

- a. Explain ROM memory and its type in detail?
- b. Write short note on data bus test.
- c. Write a short note on checksum.
- d. Write a short note on cyclic redundancy code.

Q.5. Answer the following (Any two)

[10]

- a. Explain control and status register in detail?
- b. Write a short note on embedded operating system.
- c. Explain task-state in detail with diagram?
- d. Explain what is Ready-list and Idle-task?

Q.6. Answer the following (Any two)

[10]

- a. Explain embedded system development environment?
- b. Explain life-cycle of embedded product development?
- c. Explain decompiler and disassembler in detail?
- d. List different files generated in cross-compilation process.



Q.7. Answer the following (Any three)

- a. Write any five purpose of embedded system.
- b. Explain any five Operational quality attributes?
- c. Explain locating process in detail.
- d. Write short note on common memory problems.
- e. Explain Device driver philosophy?
- f. Explain programmable logic device and its type?

munotes.in