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CU 5092 Real Time Embedded Systems Important 2 Marks Questions

<u>Unit I</u>

- 1. What are the advantages and disadvantages of load-store multiple Instructions?
- 2. Mention the importance of instruction scheduling and conditional execution of ARM instructions.
- 3. Mention the parameters used to evaluate the performance of the CPU.
- 4. List out the functional and non-functional requirements that needs to be satisfied by embedded system.
- 5. What is an embedded computer system?
- 6. Illustrate the importance of design methodology.
- 7. State the major goals of embedded system design.
- 8. List the functions of ARM processor compound to other processors.
- 9. Identify the various issues in real time computing.
- 10. Mention the challenges in embedded computing system design.

Unit II

- 1. What are the debugging challenges?
- 2. Draw the timing diagram of Bus read and write operation.
- 3. Draw the stages in a four cycle handshake protocol.
- 4. What is meant by symbol table?
- 5. Define data flow graph.
- 6. List out the various compilation techniques.
- 7. Mention the different types of data transfer in USB.
- 8. What do you mean by Control Bus in CPU?
- 9. Explain the important stages of DMA.
- 10. List the difference between program location counter and program counter.

Unit III

- 1. What are the three conditions that must be examined by the re-entrant function?
- 2. How is a Real time operating system uniquely different than a general-purpose OS?
- 3. Distinguish between a task and a process.
- 4. What is context switching?
- 5. Compare between initiation time and completion time.
- 6. What do you mean by time quantum?
- 7. Define rate monolithic scheduling.
- 8. Define power management policy.
- 9. What is response time?
- 10. Determine the important characteristics of Multitasking.

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Unit IV

- 1. Draw the CAN data frame packet format.
- 2. Differentiate single hop network front multi hop network.
- 3. Mention the necessity for a hardware accelerator in embedded system.
- 4. List the OSI layers from lowest to highest level abstraction.
- 5. What is a distributed embedded architecture?
- 6. Mention the networks for distributed embedded systems.
- 7. Define message delay.
- 8. Illustrate some internet enabled embedded systems.
- 9. Explain the advantages of hardware implementations.
- 10. Why we Prefer shared memory multiprocessor?

Unit V

- 1. Why most designers use FOSS tools in embedded system development?
- 2. What are the methods for testing a software modem?
- 3. Draw the block diagram of FSK detection Scheme in MODEM?
- 4. Evaluate the UML diagram for Data Compressor.
- 5. Outline the state diagram of encoding behaviour.
- 6. Identify the advantages of Software modem?
- 7. Elaborate the function of digital camera.
- 8. Describe about White balance.
- 9. Draw the brayer pattern of color image.
- 10. Define flush in data compressor.