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Question Paper Code: 47404

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Seventh Semester

Electronics and Communication Engineering

14UEC704 EMBEDDED AND REAL TIME SYSTEMS

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- An embedded system must have
 - hard disk
 - processor and memory
 - operating system
 - processor and input-output unit
- ARM7 is a _____ processor with _____ Architecture
 - RISC, Harvard
 - CISC, Von Neumann
 - RISC, Von Neumann
 - CISC, Harvard
- DMA operation is controlled by
 - CPU
 - Unique Controller
 - By both
 - By any one
- Executable binary file generation is carried out by
 - Assembler
 - Loader
 - Linker
 - Compiler
- Preemptive scheduling gives importance to
 - Low priority task
 - High Priority task
 - Gives equal priority to all
 - As per OS

17. (a) Give a detailed account of basic compilation techniques. (16)

Or

(b) Discuss in detail about the basic compilation process . (16)

18. (a) Discuss about interprocess communication mechanism of embedded applications. (16)

Or

(b) Analyze the various inter process communication mechanism in detail (16)

19. (a) Write short notes on accelerators and Explain the I²C bus operation. (16)

Or

(b) Illustrate in detail about distributed embedded architecture. (16)

20. (a) With a neat diagram, Describe how Personal Digital Assistant and data compressor are designed (16)

Or

(b) Discuss about principle of software MODEM with neat block diagram (16)
