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Question Paper Code: 47404

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

Seventh Semester

Electronics and Communication Engineering

14UEC704 EMBEDDED AND REAL TIME SYSTEMS

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Differentiate Von Neumann and Harvard architecture.
2. List out the two power management features provided by CPUs.
3. What is BIOS?
4. What does a linker do?
5. State the functions of operating system.
6. Define context switching.
7. What is best effort routing?
8. What is the use of attached accelerator to CPU?
9. State the function of Set-Top-Box.
10. List out the advantages of FOSS.
11. How is ARM processor different from other processors?.
12. Write short notes on DMA.
13. Define context switching.

14. Discuss the need of distributed embedded systems.
15. What are the Foss tools used for embedded system development.

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. Discuss the embedded system design process in detail. (10)
17. Elaborate in detail about the different types of Memory devices with neat sketch (10)
18. Describe any two scheduling policies used in multiprocessor environment (10)
19. Discuss in detail about internet enabled systems with neat sketch. (10)
20. With a neat diagram, Describe how Personal Digital Assistant and data compressor are designed (10)