

Set No. 1

IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018

EMBEDDED SYSTEMS

(Electronics and Communications Engineering)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions

All Questions carry equal marks

- | | | | |
|---|----|---|------|
| 1 | a) | Define Embedded system and explain the classification of embedded systems. | [8] |
| | b) | Discuss the applications of Embedded system. | [7] |
| 2 | a) | Explain one domain-specific example of embedded systems. | [8] |
| | b) | Describe the working principle of Washing machine. | [7] |
| 3 | a) | Explain the I/O types of embedded hardware design. | [8] |
| | b) | Discuss about the PCB layout design. | [7] |
| 4 | a) | What is ISR? Discuss about the different types of ISR. | [8] |
| | b) | Differentiate C versus Embedded C in Embedded firmware design. | [7] |
| 5 | a) | Explain about Multiprocessing and Multitasking of real time operating system. | [8] |
| | b) | What is RTOS? What are the different types of operating systems? | [7] |
| 6 | a) | Explain the concept of integration of Hardware and Firmware. | [8] |
| | b) | Explain the different computational models in the embedded system design. | [7] |
| 7 | a) | What is compilation? Explain the types of files generated on cross-compilation. | [8] |
| | b) | Explain about the Emulators and debugging. | [7] |
| 8 | | Write a short notes on | |
| | a) | Pre-processors | |
| | b) | Interpreters | [15] |