



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 121753

Roll No.

1	1	0	3	2	2	1	0	9	7
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B. Tech.

(SEM. VII) (ODD SEM.) THEORY

EXAMINATION, 2014-15

EMBEDDED SYSTEM

Time : 3 Hours]

[Total Marks : 100

1 Attempt any FOUR parts : 5x4=20

- (a) Explain the various timer and counting devices
- (b) Explain the classification of IO devices
- (c) Explain the various bus structures used in embedded systems.
- (d) Explain the working of timers and counters in detail.
- (e) Write short notes on CISC and RISC processors.
- (f) Explain about Assembly language of 8051 processor.

2 Attempt any TWO parts : 10x2=20

- (a) Describe about Component interfacing.
- (b) Elucidate microprocessor development design.
- (c) Explain in detail about the memory devices of DSP Chips.

121753]

1

[Contd...

3 Attempt any TWO parts : **10x2=20**

- (a) Explain the Embedded programming in C++.
- (b) Explain the various bus structures used in embedded systems
- (c) (i) Explain the parallel port devices.
(ii) Explain the sophisticated interfacing features in device ports.

4 Attempt any TWO parts : **10x2=20**

- (a) With neat sketch explain about architecture of 80386.
- (b) Explain in detail about the ARM processor.
- (c) Describe in detail about the Semaphores, Tasks and states.

5 Attempt any TWO parts : **10x2=20**

- (a) Interface the DAC, LED and Push Buttons with microcontroller and explain it briefly.
- (b) Explain about the different types of protocols of embedded systems.
- (c) Write in detail about the different types of addressing modes of the microcontroller and explain about the I/O concept.