

Total No. of Questions : 10]

SEAT No. :

P1508

[5460]-187

[Total No. of Pages : 2

T.E. (Computer Engineering)
EMBEDDED OPERATING SYSTEMS
(2012 Pattern) (End - sem) (Semester - II) (310250)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Questions 1 or 2, 3 or 4, 5 or 6, 7 or 8, and 9 or 10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) Name and explain the different operating modes of ARM. [6]
b) What are the message pipes? How they are useful to Kernel? [4]

OR

- Q2)** a) What are the quality points that rate a scheduling algorithm? [4]
b) Give total number of registers found in ARM mode of ARM architecture? Give reason for their existence. [4]
c) List four Real Time Operating Systems. [2]

- Q3)** a) What is bootstrap loader? What are its components? [4]
b) What are the following with respect to Linux kernel? [3]
i) zImage ii) vmlinuz
c) Write short note on flash memory. [3]

OR

- Q4)** a) Explain the following: [6]
i) head.o ii) main.o
b) What is Busy Box? Give details of Busy Box configuration. [4]

- Q5)** a) How DHCP/BOOTP protocols are useful for embedded Linux development? [5]
b) Name and explain a Linux utility used for partitioning the block devices. [6]
c) What are the different types of device drivers? Explain lsmod and modprobe. [6]

OR

P.T.O.

