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Reg. No. : .....

Name : .....

Sixth Semester B.Tech. Degree Examination, May 2016
(2008 Scheme)
08.605 : HIGH PERFORMANCE MICROPROCESSORS (R)

Time : 3 Hours Max. Marks : 100

PART – A

Answer **all. Each** question carries **4** marks.

1. Discuss the flag register of 80486.
2. Explain the following signals :

   PEREQ, PEACK#, READY#, BUSY#.
3. What is the function of descriptors in segmentation ?
4. Explain thread level parallelism.
5. List the features of RISC.
6. What is delayed branching ?
7. What is the advantage and disadvantage of register indirect addressing mode in 8051 ?
8. Compare and contrast microprocessors and microcontrollers.
9. What is the role of SBF and SCO N registers in serial data transfer in 8051 ?
10. Discuss IE register in 8051. **(10×4=40 Marks)**

PART – B

Module – 1

11. Describe the architecture of 80386. **10**
12. Discuss the different operating modes of 80286. **10**

OR

13. Draw and discuss the paging mechanism of 80386 in detail. **10**

14. Explain the on-line cache management of 80486. **10**

Module – 2

15. Describe the circular buffer organization of overlapped windows in RISC processors. **10**

16. Discuss pipelining in risc processors. **10**

OR

17. What is the significance of graph colouring algorithm in RISC processors ? **10**

18. Discuss the different memory addressing modes in ARM processors. **10**

Module – 3

19. Write a program to receive the data which has been sent in serial form and sent to Port 0 in parallel form in 8051. **8**

20. Discuss the addressing modes of 8051 with examples. **12**

OR

21. Describe the 8051 timer. **10**

22. How the 8051 transfer and receive data serially ? **10**
