



(Pages : 2)

A – 2770

Reg. No. :

Name :

**Sixth Semester B.Tech. Degree Examination, May 2016
(2013 Scheme)**

13.605 PC : HARDWARE AND INTERFACING (R)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions :

1. List the internal registers in 80286 microprocessor and specify their data width.
2. What are the functions of selectors and descriptors of 80286 ?
3. What are the different types of DRAM ?
4. What is SCSI ?
5. Differentiate serial port and parallel port. (5×4=20 Marks)

PART – B

Answer **one full** question from **each** Module.

Module – I

6. a) With neat block diagram explain the basic operation of microcomputer. 5
- b) Draw and discuss the internal block diagram of 80286. 15

OR

7. a) Describe about memory management of 80386. 10
- b) Explain the addressing modes of 80386 with example. 10

Module – II

8. a) What is ATX ? How it differs from AT ? 15
- b) What is POST ? Where is it contained ? 5

OR

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9. a) What is BIOS ? Explain in detail about the basic functions of BIOS. 15
b) List out the sequence of works done by the BIOS when you turn on your computer. 5

Module – III

10. a) Explain about read and write operation on magnetic storage disk. 12
b) What are the methods used in a system for cooling ? 8

OR

11. a) Why Device Drivers are required ? Explain. 5
b) Explain about IDE/ATA interface standards. 15

Module – IV

12. Describe about Standard Parallel Port interfacing with pin diagrams. 20

OR

13. a) Explain about UART registers. 10
b) How does data acquisition take place through serial port ? 10
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