

2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
COMPUTER ENGINEERING
(ELECTRICAL & ELECTRONIC ENGINEERING)

MAY 2005

TIME – 3 HOUR
MARK – 80

Answer any FIVE Questions
All Questions carry equal marks

1. Draw a block diagram of the computer. Explain the function of each of the blocks.
[16]
2. (a) Find the decimal values of the following binary numbers.
(1011010)₂, (111111)₂, (111011.101)₂
- (b) Convert the following decimal numbers to hexadecimal. (285.48)₁₀, (0.5625)₁₀
[4+4+8]
- (c) Convert the following binary numbers to octal and then to decimal (100100101)₂, (110.01)₂
3. (a) Using a neat sketch describe the parts of a magnetic hard disk.
- (b) Explain how the data is organized on a hard disk and discuss its operating principle.
[4+6+6]
- (c) What are the main differences between the floppy disk and hard disk?
4. (a) Explain the logical structure of HYPCOM processor.
- (b) List the operation codes of HYPCOM and their meaning.
5. (a) Write in detail about the UNIX operating system and windows operating system.
- (b) What are the advantages of designing a micro kernel based OS?
[8+8]
6. What are the main parameters used to classify computers? Write in detail about the classification.
[16]
7. Explain the different types of local area networks
[16]
8. (a) Discuss in detail about the classification of computer graphics.
[16]
- (b) Explain with diagram how a CRT display works.