

I B.Tech Supplementary Examinations, November/December 2005
COMPUTERS AND INFORMATION TECHNOLOGY
 (Common to Electrical & Electronic Engineering, Electronics &
 Communication Engineering, Computer Science & Engineering, Electronics &
 Instrumentation Engineering, Bio-Medical Engineering, Information
 Technology, Electronics & Control Engineering, Computer Science & Systems
 Engineering, Electronics & Telematics and Electronics & Computer
 Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
 All Questions carry equal marks

1. Write short notes on the following:

- (a) Cache memory
- (b) Magnetic disks
- (c) Optical disks.

[4+6+6]

2. With neat sketches explain the working of CRT monitor & its features. [16]

3. Discuss how data communication takes place over telephone lines. [16]

4. Explain the various stages involved in systems development lifecycle. [16]

5. Discuss different types of databases and their structures in detail. [16]

6. Solve the initial value problem

$$u' = -2tu^2, u(0) = 1$$

With $h=0.2$ on the interval $[0,1]$ using the predictor correction method. [16]7. For the following data, Calculate the differences and obtain the forward and backward difference polynomials. Interpolate at $x=0.25$ and $x=0.35$ [16]

x	0.1	0.2	0.3	0.4	0.5
f(x)	1.40	1.56	1.76	2.00	2.28

8. Solve the following equations by using Gauss Jacobi & Gauss seidel methods. [16]

$$10x - y + 3z = 11$$

$$3x + 5y + z = 14$$

$$2x - y + 10z = 10$$
