

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering Semester –VI Examination Dec. - 2011

Subject code: 360703

Date: 08/12/2011

Subject Name: Computer Maintenance

Time: 02.30 pm – 05.00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered Authentic.

- Q.1** (a) i) Describe general faults of computer system. **03**
ii) Differentiate Conventional memory and Extended memory. **04**
- (b) Draw layout of motherboard and show important areas on it and explain each area in brief. **07**
- Q.2** (a) You are working as a hardware engineer You want to install two new hard disks in a computer. Explain steps of installation process to make both hard disk ready to install software. **07**
- (b) i) Differentiate DIN, PS/2 and USB keyboards. **03**
ii) Write steps to install CD-ROM drive. **04**
- OR**
- (b) i) Give classification of Printers and describe each in brief. **03**
ii) List general faults of Laser printer. **04**
- Q.3** (a) i). Differentiate UPS and SMPS. **03**
ii) What is Power Good Signal? What is it's function and how can we identify it ? **04**
- (b) i) What is MODEM ? What is its function? How internal modem differs from external modem ? **03**
ii) Classify following devices to their correct class (i.e. Input/Output) Monitor, Keyboard, Printer, Scanner, Plotter, Speaker, Web camera, Joystick. **04**
- OR**
- Q.3** (a) i) Differentiate Drum Plotter and Flatbed Plotter. **03**
ii) List general faults and troubleshooting of monitor. **04**
- (b) Define Computer maintenance. List and describe different types of computer maintenance. **07**
- Q.4** (a) Write points about an ideal situation for preparing computer centre and installation of computer systems. **07**

- (b) Write important advices for PC assembly and PC disassembly. **07**
- OR**
- Q. 4** (a) List standards use for Hard disk ? Explain each in brief. **07**
- (b) Explain CMOS setup in detail. **07**
- Q.5** (a) Explain LAYMAN check in detail. **07**
- (b) What is POST? Explain in detail. **07**
- OR**
- Q.5** (a) Explain functions of BIOS in detail. **07**
- (b) i) Estimate required power capacity for a computer centre that have One server and 30 Computer systems with floppy drive, hard disk and LAN card. **05**
- ii) List various tools, testing and measuring equipments required for computer maintenance. **02**
