

Roll No. **Total Pages : 03**

GSQ/D-20 **1088**

EEM

Theory

Computer Hardware and Maintenance-I

Time : Three Hours]

[Maximum Marks : 40

Note : There are nine questions in this paper. Attempt *Five* questions in all. Q. No. **1** is compulsory. Attempt remaining *four* questions by selecting only *one* question from each Unit.

1. (a) Write a short note on specifications of different styles of PCs. **2**
- (b) What do you mean by BIOS ? Explain in brief. **2**
- (c) What is a Keyboard ? Give function of some special keys in Keyboard. **2**
- (d) Write the features of Internet. **2**

Unit I

2. Explain the functional block diagram of Personal Computer and its various parts in detail. **8**

3. (a) Discuss various input/output ports available in Personal Computer. **4**
(b) Write short notes on the following :
(i) Laptop
(ii) Supercomputer Computer. **4**

Unit II

4. (a) What is the function of Motherboard ? Explain in brief the various components of a motherboard in a computer system. **4**
(b) What is a floppy disk ? What are different types of floppy diskette ? Discuss the structure of a floppy disk and its capacity. **4**
5. (a) Why the partitioning of a disk is required ? **2**
(b) What do you mean by SMPS and linear power supply ? Explain the basic principle of each. **4**
(c) Briefly discuss Disk organization in DOS. **2**

Unit III

6. (a) Discuss the basic mechanism of CRT Controller. **4**
(b) Explain the basic mechanism of Inkjet printer. **4**
7. Discuss the various types of keyboard and explain in brief their principle of operations. **8**

Unit IV

8. What do you mean by DVD ? How is it different from a CD-ROM ? What care must be taken into consideration for CD-ROM/DVD. **8**
9. (a) Discuss the construction and principle of operation of CD-ROM drive. **6**
- (b) Write the difference between External and Internal Modem. **2**