

Question Bank (G SCHEME)

Name of subject: COMPUTER HARDWARE AND MAINTENANCE

Unit Test: II

Subject Code: 17428

Course: CM4G/IF

Semester: IV

CHAPTER 1: Motherboard and its Components (24)

4 Marks Each

- 1) Draw the block diagram for North Bridge and South Bridge Architecture and explain.
2. What is Cache Memory? What are its types?
3. Compare between Real Mode and Protected Mode.
4. Explain Overview & features of SDRAM, DDR, DDR2, and DDR3

3 Marks Each

5. Explain Motherboard Selection Criteria.
6. Explain four features of PCI Bus.
7. Explain four features of PCI- X Bus.
8. Explain BIOS – Basics & CMOS Set Up.

CHAPTER 5:- Power Supplies (8)

3 Mark Each

1. Draw neat diagram of SMPS? Explain working of the SMPS
2. Draw pin diagram of signal description ATX connector.
3. With a neat diagram define blackout and brownout surge and spike.
4. Explain Online UPS?
5. Explain Offline UPS?

4 MARKS EACH

4. List the different protection devices and explain it

5. Draw the block diagram and describe the working of offline UPS
6. Compare online and offline UPS

CHAPTER 6:-INTERFACES (12)

3 MARKS EACH

7. Write features of USB and Fire wire
8. What is RS232 and explain with block diagram

4 MARKSEACH

9. With the neat block diagram explain the importance of centronic interface
10. Which are the SCSI connectors
11. Give the test sequence of POST

CHAPTER 7:- PC TROUBLESHOOTING .MAIN. AND TOOLS (8)

3 MARKS EACH

1. Explain block diagram of logic analyzer for troubleshooting of PC
2. Explain the necessity of diagnostic software

4 MARKS EACH

3. Draw the schematic block diagram of logic probe and describe the working
4. Give the preventive maintenance of hard disk and keyboard
5. Explain the troubleshooting and name the equipment used for the troubleshooting