

M.Sc. (Part-II) Semester-III (CBCS) Examination
ELECTRONICS
3 ELE 4-Computer Hardware and Interfacing

Time : Three Hours]

[Maximum Marks : 80

N.B.:— (1) All questions carry equal marks.

(2) Solve one question from each alternative.

(3) Draw neat sketches wherever necessary.

1. (a) Explain the concept of selecting and installing memory. 8
- (b) Explain the various parts of personal computer. 8

OR

- (p) Explain the various memory techniques incorporated in personal computer system. 8
- (q) Explain the architecture performance features of Intel's CPU. 8
2. (a) Explain the motherboard with their sockets and slots. 8
- (b) Explain the various BIOS and their boot sequence. 8

OR

- (p) Explain the concept of expansion slots, form factor and upgrading of motherboard in Pentium 4. 8
- (q) Explain the switching mode power supply with regulation concept. 8
3. (a) Explain the recording of floppy disk with suitable diagram. 8
- (b) Explain the IDE drive standard and its features. 8

OR

- (p) Explain the Sockets and Slots in motherboard Intel D850GB. 8
- (q) Explain the BIOS - POST - BIOS operation in motherboard and give the list of boot sequence of BIOS. 8
4. (a) Explain the parallel port operation with various signal and timing diagrams. 8
- (b) Explain the construction and operation of video adapter. 8

OR

- (p) Explain asynchronous port operation with various signals. 8
- (q) Explain construction and operation of sound board and its audio bench marks. 8
5. (a) Explain the ISA bus and its various signals. 8
- (b) Explain construction of USB architecture. 8

OR

- (p) Explain the PCI bus and its various signals. 8
- (q) Explain various plug and play devices. 8

