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Seventh Semester B.Tech. Degree Examination, May 2013 (2008 Scheme)

08.705 (2): COMPUTER HARDWARE AND INTERFACING (R) (Elective – II)

Time: 3 Hours

Max. Marks: 100

PART-A

Answer all questions. Each question has 4 marks.

- 1. Explain the features of POST in a PC.
- 2. Differentiate between SIPP and DIPP.
- 3. Define IRQ conflict and explain it with an example.
- 4. Explain the MFM scheme and show how the data bits 0 0 0 1 1 0 1 1 are encoded using MFM.
- 5. Explain the functioning of CD-RW. IIIs also by a substitution and the functioning of CD-RW.
- 6. Explain the functions of the power supply in a PC.
- 7. Write a note on AGP. The land and the local part of the local p
- 8. Differentiate between serial and parallel ports.
- 9. Explain MIDI.
- 10. Explain the compression techniques in video cards.

(4×10=40 Marks)



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## PART-B

Answer any one full question from each Module. Each full question has 20 marks.

## Module - I

- 11. Draw the block diagram of a Typical Chip Set and describe the characteristics and functions performed by Southbridge chip.
- 12. Describe:
  - i) DDRAM
  - ii) PPRAM
  - iii) SIMM
  - iv) DIMM

## Module - II

- 13. a) Describe the architecture and the characteristics of the IDE interface.
  - b) Draw the respective block diagrams and discuss the working of DVD drive and decoder.
- 14. a) Discuss the different mechanisms for processor cooling.
  - b) Describe the various ways of implementing hard drive servo mechanism.

## Module - III

- Explain the architecture, signals and limitations of the ISA bus.
- 16. a) Describe the design architecture of universal serial bus and explain the features of USB 2.0 and USB 3.0.
  - b) Draw the block diagram of an Audio Adapter and describe its (the adapter's) architecture.

(3×20=60 Marks)