Code :IT2224

III B.Tech I Semester(R05) Supplementary Examinations, May 2011
COMPUTER ORGANIZATION
(Information Technology)
For students of RR regulation readmitted to III B.Tech I Semester R05

Time: 3 hours　　　　　　　　　　　　　　　　　　　　　　　　**Max Marks: 80**

Answer any FIVE questions
All questions carry equal marks
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1. (a) Explain the top level view of components
   (b) What do you mean by hard wired program?
   (c) List the basic functions perfomed by a computer.

2. Discuss about the IEEE standard for binary floating point arithmetic.

3. Discuss about various Pentium operation types with examples.

4. (a) List and describe Load/Store/Exchange instructions of Motorola 88000.
   (b) Draw and explain Motorola 88000 system block diagram.

5. (a) Explain various schemes available for partitioning memory and the merits and demerits of each.
   (b) What is compaction?
   (c) Differentiate between external and internal fragmentation.

6. (a) Differentiate between magnetic-disk and CD-ROM systems.
   (b) Magnetic disks are used as the secondary storage for program and data files in a virtual memory system. Which disk parameter(s) should influence the choice of page size?

7. (a) What is micro instruction. Give an interpretation of it?
   (b) How is microprogramming concept is used to impletment the control unit?
   (c) Differentiate between high level and micro programming languages.

8. (a) Explain the following terms.
      i. Read miss
      ii. Read hit
      iii. Write miss
      iv. Write hit
   (b) Discuss different approaches to vector computation.

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