[4860] - 329

M.E. (Computer Engineering) & (Computer Network) (Semester - I)
EMERGING TRENDS IN COMPUTER ARCHITECTURE
(2008 Pattern)

Time : 3 Hours]   *[Max. Marks : 100*
Instructions to the candidates :
1) *Solve any three questions from each section.*
2) *Answer to the two sections should be written in separate answer books.*
3) *Figures to the right indicate full marks.*

SECTION - I

Q1) a) Explain the architecture of Itanium.   **[8]**

   b) Differentiate between IA-32 architecture and IA-64 architecture.   **[8]**

Q2) a) What is multicare architecture? Explain with examples.   **[8]**

   b) Explain symmetric and asymmetric multiprocessors with relative
      advantages and disadvantages.   **[8]**

Q3) a) Explain PARAM net in detail.   **[8]**

   b) Explain Giga Bit Ethernet and Quadrinet in brief.   **[8]**

Q4) Write short notes on any three :   **[18]**

   a) Cluster of Workstations (COWs) and Network of Workstations (NOWs)

   b) Blade servers

   c) Direct Attached Storage (DAS) and Network Attached Storage (NAS)

   d) Storage Area Network (SAN)

SECTION - II

Q5) a) Explain the different types of multithreading. **[8]**

b) Explain TCP/IP protocol suite. **[8]**

Q6) a) Explain Sneha - Samuham computing model. **[8]**

b) Explain log P communication model. **[8]**

Q7) a) Explain shared memory programming and message passing programming. **[8]**

b) Explain data parallel programming model. **[8]**

Q8) Write short notes on any three : **[18]**

a) ATM switches and networks

b) ARC model

c) ARCC model

d) High performance FORTRAN

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