Code No: 155AA

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, February - 2022
ADVANCED COMPUTER ARCHITECTURE
(Computer Science and Engineering)

Time: 3 hours   **Max. Marks: 75**

Answer any five questions
All questions carry equal marks
- - -

1.a) Explain the Multiprocessors and Multi computers.
 b) Discuss the Multi vector and SIMD Computers.   [7+8]

2.a) Elaborate the PRAM and VLSI models.
 b) Describe the System interconnect Architectures.   [7+8]

3.a) Explain the Advanced Processor Technology.
 b) Explain the applications of parallel processing.   [7+8]

4.a) Discuss the Speed up performance laws.
 b) Describe the processes and Memory Hierarchy.   [7+8]

5. With the help of a neat diagram, explain the classification of pipeline processors in detail.   [15]

6.a) Illustrate the Instruction Pipeline design.
 b) Explain about shared memory organization.   [7+8]

7.a) Discuss the Multiprocessors and Multicomputer.
 b) Explain the message passing mechanisms.   [6+9]

8.a) List and explain the Principals of Multithreading.
 b) Explain the data flow architecture.   [7+8]

---oo0oo---