

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY-2007

B.TECH MODEL EXAMINATION

OPERATING SYSTEMS

(COMPUTER SCIENCE ENGINEERING)

JUNE-2007

**TIME-3HOUR
MARK-80**

ANSWER ALL THE QUESTIONS

1. Distinguish between a byte and a word.
2. Explain what happens during a computer's basic machine cycle.
3. What is microcode?
4. Briefly explain the process of reading data from or writing data to a disk.
5. What is the purpose of an interface?
6. What is a buffer? Why are buffers used?
7. Distinguish between an absolute address and a relative address.
8. What is dynamic address translation?
9. What is an API(Application Programming Interface)?
10. Identify which of the following are examples of space-multiplexed sharing and, which are time multiplexed sharing. If there is a sense that it could be either strategy, explain.
 - a. The land in a residential subdivision.
 - b. A personal computer
 - c. A whiteboard in a classroom
 - d. A bench seat on a bus
 - e. A single user file in UNIX
 - f. A printer on a timesharing system
 - g. The heap in the C/C++ runtime system