Roll No. ....   Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (EE/EEE) (Sem.–7th & 8th)
OPERATING SYSTEM
Subject Code : CS-202
Paper ID : [A0442]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

I. Write briefly :

a) What is the use of inter process communication?

b) What is meant by context switch?

c) Differentiate tightly coupled systems and loosely coupled systems.

d) What do you mean by system calls?

e) What is process control block?

f) Compare user threads and kernel threads.

g) What is preemptive and no preemptive scheduling?

h) What are the benefits of multithreaded programming?

i) Define logical address and physical address.

j) What is the use of job queues, ready queues and device queues?

SECTION-

2. Explain the architecture of an operating

3. What do you mean by processor schedu scheduling.

4. What is semaphore and synchronization of semaphore.

5. What is thrashing? What is the cause o detect thrashing?

6. Describe the salient features of the file

SECTION-

7. Describe deadlock detection and recovery system.

8. Explain the principles of segmentation v

9. Explain the term "process" from the op necessary diagram. How does multi progr utilization of a computer system?