

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

December, 2017

00791

BICS-019 : OPERATING SYSTEMS

Time : 3 hours

Maximum Marks : 70

Note : Question no. 1 is **compulsory**. Attempt any **six** questions from the rest. All questions carry equal marks.

1. Discuss Operating System Services. 10
2. Explain Multithreading models. 10
3. (a) What is a safe state and what is its use in deadlock avoidance ? 4
(b) Define the following terms with an example for each : 3×2=6
 - (i) Turn around time
 - (ii) Waiting time
 - (iii) Response time
4. (a) Discuss Process Control Block. 5
(b) Describe Round-Robin Scheduling. 5

5. What is Segmentation and Fragmentation ?
Explain. 10
6. What is Paging ? Discuss page replacement
algorithms. 10
7. (a) Explain about various file attributes. 5
(b) Explain about various file access methods
briefly. 5
8. (a) What is Protection ? Explain about types of
access and access control briefly. 5
(b) Discuss Directory Structure Concept in file
management. 5
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