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[Total No. of Printed Pages : 3

Roll No

IT-501-CBGS

B.Tech., V Semester

Examination, June 2020

Choice Based Grading System (CBGS)

Operating system

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any Five questions.

ii) All questions carry equal marks.

iii) All parts of each question to be attempted at one place.

iv) In case of any doubt or dispute the English version question should be treated as final.

1. a) What is Operating System? Explain its type with examples. 7
- b) Describe overview of UNIX Operating System. 7

2. a) Explain Mutual exclusion problem. 7

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- b) Define Monitor Program. Explain how it overcomes the Drawback of Semaphores. 7
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3. a) What is Multiprocessor operating system? Explain its types. 7
b) algorithms? 7
4. a) Explain the multiprogramming concept with example 7
b) Explain Paging memory Management in detail. 7
5. a) Write algorithms for Page replacement. 7
b) Explain Multiprocessor synchronization. 7
6. a) What is Deadlock? Explain various methods of avoidance of Deadlock. 7
b) What do you mean by Virtual memory? Discuss the advantages of virtual memory methods. 7

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7. a) What is Distributed file systems? Explain its properties. 7
- b) Describe process, states and transition. 7
8. a) Discuss the classical problem of Synchronization. 7
- b) Describe File management. 7

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