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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech III Year I Semester Examinations, February/March - 2016 OPERATING SYSTEMS

(Common to CSE, IT)

Note: This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all questions in Part A.  Part B consists of 5 Units. Answer any one full question from each unit.  Each question carries 10 marks and may have a, b, c as sub questions.  Part-A  (25 Marks)  1.a) What is the advantage of Multiprogramming?  [2]  b) What do you mean by system calls?  [3]  c) What is Context Switch?  [4]  Define Multithreading.  [5]  What is demand paging?  [6]  Difference between internal and external fragmentation.  [7]  [8]  Explain swap space management.  [9]  Explain swap space management.  [10]  Explain swap space management.  [11]  Explain swap space management.  [12]  Explain swap space management.  [13]  Part-B  (50 Marks)  2. Discuss the features of the following Operating Systems.  a) Distributed Systems  b) Real Time Systems.  OR
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.  Part- A  (25 Marks)  1.a) What is the advantage of Multiprogramming? [2] b) What do you mean by system calls? [3] c) What is Context Switch? [2] d) Define Multithreading. [3] e) What is demand paging? [4] f) Difference between internal and external fragmentation. [3] g) Explain swap space management. [2] h) What is File sharing? [3] i) Define deadlock avoidance. [3] j) What are a safe state and an unsafe state?  Part-B  2. Discuss the features of the following Operating Systems. a) Distributed Systems b) Real Time Systems.  [5+5]
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b) Real Time Systems OR
OR
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<ul><li>3.a) Write about operating system functions.</li><li>b) Discuss the virtual machines with examples. [5+5]</li></ul>
4. Explain:
a) Multilevel Q scheduling
b) Multilevel feedback scheduling
c) Real time scheduling. [3+3+4]
OR OR
5. Explain in detail about semaphores and monitors. [10]
6. Explain in detail about segmentation with paging. [10]
7. Describe the following allocation algorithms:
a) First fit b) Best fit c) Worst fit [3+4+3]
8. Explain in detail about directory structure. [10]
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9. Explain in detail about protection. [10]

	10. Explain in detail about banker's algorithm with example.							[1	[10]		
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