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Code No: RR220503 **RR** **Set No. 2**

II B.Tech II Semester Examinations,December 2010
OPERATING SYSTEMS AND SYSTEM PROGRAMMING
Computer Science And Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. Explain how *criticalregion* concept is used for solving CSP. Discuss its syntax and implementation. [16]
2. What is meant by assembling? Explain the various elements of assembly language programming through a simple assembly program. [16]
3. (a) Write about tree-structured file-directory structure. [10]
   (b) Explain the (disk) free-space management techniques. [6]
4. (a) Compare the memory management approaches in UNIX and Solaris. [10]
   (b) What is meant by *Relocation*? [6]
5. (a) Explain the functions of a loader. [10]
   (b) Brief the 'compile and go' loader scheme. [6]
6. (a) What does it mean by preemptive CPU scheduling algorithms? [6]
   (b) Explain the CPU scheduling mechanism in priority scheduling algorithms. [10]
7. (a) Write the deadlock detection algorithm. [10]
   (b) Illustrate the above algorithm by taking a typical snapshot of a system. [6]
8. (a) What is an operating system? State its goals and functions. [10]
   (b) Diagram the various components of an operating system. [6]

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II B.Tech II Semester Examinations,December 2010
OPERATING SYSTEMS AND SYSTEM PROGRAMMING
Computer Science And Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) What does it mean by preemptive CPU scheduling algorithms? [6]
   (b) Explain the CPU scheduling mechanism in priority scheduling algorithms.[10]
2. (a) Compare the memory management approaches in UNIX and Solaris. [10]
   (b) What is meant by *Relocation*? [6]
3. Explain how *criticalregion* concept is used for solving CSP. Discuss its syntax and implementation. [16]
4. What is meant by assembling? Explain the various elements of assembly language programming through a simple assembly program. [16]
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Code No: RR220503 **RR** **Set No. 1**

II B.Tech II Semester Examinations,December 2010
OPERATING SYSTEMS AND SYSTEM PROGRAMMING
Computer Science And Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) What is an operating system? State its goals and functions. [10]
   (b) Diagram the various components of an operating system. [6]
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3. (a) What does it mean by preemptive CPU scheduling algorithms? [6]
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4. (a) Explain the functions of a loader [10]
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6. (a) Compare the memory management approaches in UNIX and Solaris. [10]
   (b) What is meant by *Relocation*? [6]
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   (b) Illustrate the above algorithm by taking a typical snapshot of a system. [6]
8. Explain how *criticalregion* concept is used for solving CSP. Discuss its syntax and implementation. [16]

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Code No: RR220503 **RR** **Set No. 3**

II B.Tech II Semester Examinations,December 2010
OPERATING SYSTEMS AND SYSTEM PROGRAMMING
Computer Science And Engineering

Time: 3 hours **Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

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1. (a) Compare the memory management approaches in UNIX and Solaris. [10]
   (b) What is meant by *Relocation*? [6]
2. Explain how *criticalregion* concept is used for solving CSP. Discuss its syntax and implementation. [16]
3. What is meant by assembling? Explain the various elements of assembly language programming through a simple assembly program. [16]
4. (a) What does it mean by preemptive CPU scheduling algorithms? [6]
   (b) Explain the CPU scheduling mechanism in priority scheduling algorithms. [10]
5. (a) Explain the functions of a loader. [10]
   (b) Brief the 'compile and go' loader scheme. [6]
6. (a) Write the deadlock detection algorithm. [10]
   (b) Illustrate the above algorithm by taking a typical snapshot of a system. [6]
7. (a) Write about tree-structured file-directory structure. [10]
   (b) Explain the (disk) free-space management techniques. [6]
8. (a) What is an operating system? State its goals and functions. [10]
   (b) Diagram the various components of an operating system. [6]

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