

**CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL  
2011**

**COMPUTER SCIENCE  
PAPER VH - OPERATING SYSTEM AND LINUX**

**Time: 3 Hrs  
70**

**Max. Marks:**

**PART-A**

**1. Answer any TEN questions from the following:**

**1x10=10**

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- a) Write the purpose of an operating system.
- b) What do you mean by spooling?
- c) What is meant by the statement "a process is in the READY state"?
- d) Write any two criteria for a scheduling.
- e) What is dynamic file allocation?
- f) What is File Allocation Table (FAT)?
- g) Give an example for deadlock.
- fa) Write any two extensions of a file.
- i; What is the meaning of. and..?
- j) What is Root directory?
- k) Name the popular editors for the Linux system.

What is wild card?

**PART-B**

**Answer any TWO questions from each unit.**

**UNIT-I**

**2 a i** Explain the multiprogramming and real time systems.

b) Explain the types of interrupt. **(5+5)**

aj Explain Round Robin scheduling with example.

b) Explain the interrupt system with fetch execute cycle. **(5+5)**

**4. a)** Write a note on (i) Simple Paging  
(ii) Simple Segmentation

b) Explain five state process state diagram. **(5+5)**

UNTT-II

5. a) What are the attributes of a file?  
b) What is a directory? Explain the *types* of information
6. a) Explain deadlock avoidance and deadlock deletion,  
b) Write a note on contiguous file allocation method.
7. a) Explain (i) Disk scheduling  
(ii) Secondary storage structure

UNIT-in

8. a) Explain the different file operators used in Linux.  
b) Explain the while and for statement with syntax and ex sap .t
9. a) Explain the input and output redirections.  
b) Explain the importance of directories in the Linux file
10. a) With Syntax and example, explain the usage of CMnmands.  
foil (i) mkdir (ii) grep (iii) chmod  
b) Explain the switch statement with syntax and example- (6

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**COMPUTER SCIENCE**  
**PAPER VII: OPERATING SYSTEM AND LINUX**

Time: 3 Hrs

Max. Marks: 70

**PART – A**

1. Answer any TEN questions from the following: 10x1=10

- a) What is swapping?
- b) List any two goals of an operating system.
- c) What do you mean by spooling?
- d) What is a dispatcher?
- e) Define Round Robin Scheduling.
- f) What do you mean by fragmentation?
- g) What are threads?
- h) Give any one example of deadlock not related to computer science.
- i) Name the redirection operators available in Linux.
- j) What is the purpose of pwd command in Linux?
- k) Give the usage of wildcards in Linux commands.
- l) Differentiate between \$# and \$0.

**PART – B**

Answer any TWO questions from each unit

**UNIT – I**

2. a) Explain the function of process control block.  
b) Explain briefly the preemptive and non-preemptive scheduling. (5+5)
3. a) Draw the 3 state Process State diagram and explain the various states of a process.  
b) List and explain the different storage placement policies. (5+5)
4. a) Explain segmentation with an example.  
b) Explain the FCFS and SJF scheduling methods. (5+5)

**UNIT – II**

5. a) What is a directory? Explain the different directory structures.  
b) What are the necessary conditions for deadlock situation to occur? (5+5)
6. a) Distinguish between disk caching and RAM.  
b) Explain two deadlock detection methods. (5+5)
7. Write a note on :  
a) Disk scheduling  
b) Secondary storage (5+5)

**UNIT – III**

8. a) What are the features of Linux OS?

- b) Explain the different methods of changing file permissions. (5+5)
9. a) Give the syntax of case statement and explain with an example.
- b) Explain the following Linux commands with an example. (4+6)  
 i) grep ii) CP iii) mkdir iv) who
10. a. Write a shell script to accept a number and print whether it is prime or not.
- b. List and explain the important directories in the Linux file system. (5+5)

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COS 601

Reg. No. ....

**CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2013**  
**COMPUTER SCIENCE**  
**PAPER VI-OPERATING SYSTEM AND LINUX**

Time: 3 Hrs

Max. Marks: 80

**PART – A**

1. Answer any TEN questions from the following: 10x2=20
- a) What is meant by spooling?
- b) Define deadlock.
- c) Mention different types of operating system.
- d) What is aging? Why is it required?
- e) Name any four attributes of a file.
- f) What is File Allocation Table (FAT)?
- g) What is the meaning of CPU burst and I/o burst?
- h) What is dispatcher? What is its purpose?
- i) What is swapping?
- j) Give the syntax and meaning of grep command.
- k) List the logical operators in Linux.
- l) What is the difference between mv and cp commands?

**PART – B**

Answer any TWO questions from each unit

**UNIT – I**

2. a) Explain the services of an operating system.
- b) Write a note on threads. (6+4)
3. a) Explain the round robin scheduling algorithm.
- b) Draw the 3-state process state diagram and explain the various states of a process. (5+5)
4. a) Explain the fragmentation with an example.
- b) Write a note memory compaction. (5+5)

**UNIT – II**

5. a) What are the necessary conditions for deadlock situation to occur?
- b) Write a note on disk scheduling. (5+5)

6. a) How do deal with deallock when it is detected?  
b) Explain any 3 operations on a file. (4+6)

7. a) What are the different methods of accessing a file?  
b) Explain the deadlock Prevention. (5+5)

**UNIT – III**

8. a) Write a note on vi editor of Linux.  
b) What are the features of Linux operating system. (6+4)

9. a) Explain any 3 directory related commands in Linux.  
b) Write a shell program to print the first on Febonacci numbers. (6+4)

10. a. Explain the following commands with syntax and example  
(i) cut (ii) chmod (iii) sort  
b. Write a note on Kernel of Linux. (6+4)

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**COS 601.1**  
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**CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION  
APRIL 2014  
COMPUTER SCEINCE – VII  
ASP.NET**

**Time: 3 Hrs**

**Max. Mark:**

**PART – A**

**1. Answer any TEN questions from the following: 10x2=**

- Write two benefits of ASP.NET.
- What is the use of compare validator control?
- What are the states of an application can have?
- What is Master page?
- What is the use of hyperlink control?
- List the different types of navigation controls.
- List the different templates supported by LoginView control.
- List any four WebPart controls.
- What do you mean byPostBack url?
- List any two methods of GridView control.
- List any two data source control.
- What is the use of Panel control?

**PART – B**

**Answer any TWO questions from each unit.**

### UNIT – I

2. a) Explain any two goals of ASP.NET.  
b) Differentiate between Literal Control and Label Control. **(6+4)**
3. a) Explain the methods of global asax file corresponding to the events that are not involved with each user request.  
b) Explain any four properties of a BaseValidator class. **(6)**
4. a) Explain any five properties of TextBox Control.  
b) Write the differences between ListBox control and DropDownList Control. **(5+5)**

### UNIT – II

5. a) Explain briefly any three public events of LoginStatus control.  
b) Explain any four templates involved in customizing the appearance of SiteMap control. **(6)**
6. a) Explain the use of AdRotator control.  
b) What is the use of PassWord Recovery Control? Explain. **(4+6)**
7. a) Differentiate collapseImageTooltip and CollapseImageURL with regard to properties of TreeView control.  
b) Write a note on Menu control. **(5+5)**

### UNIT – III

8. a) Explain any six functions of WebPartManager control.  
b) Explain the disconnected data Architecture in .NET frame work. **(6+4)**
9. a) Explain DataAdapter and Data sets.  
b) Explain any two types of Master pages that can be created in a web application. **(6+4)**
10. a) Explain any four important properties of GridView control.  
b) What are the different templates offered by Data List? **(4+6)**

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**CREDIT BASED SIXTH SEMESTER B.Sc. DEGREE EXAMINATION APRIL 2016****COMPUTER SCIENCE****PAPER VII – ASP.NET**

Time: 3 Hrs

Max. Marks: 80

**PART – A****1. Answer any TEN questions from the following:****2x10=20**

- a) Define ASP.NET.
- b) What are Cookies?
- c) What are Web server controls?
- d) Define Menu class.
- e) Define RequiredFieldValidator control.
- f) What is namespace? Give an example.
- g) What are the physical components of PasswordRecovery control?
- h) Define PostbackUrl?
- i) What is the use of hyperlink control?
- j) List any four Web part controls.
- k) List any two methods of GridView control.
- l) Differentiate between Image Button and Image controls.

**PART – B****Answer any TWO questions from each unit.****UNIT – I**

2. a) Explain in detail the different states in ASP.NET web application? Give an example (8)
- b) What is HiddenField control? (2)
3. a) Explain any five properties of Text box control. (5)
- b) Explain the methods of global asax file corresponding to the events that are not involved with each user request. (5)
4. a) Explain the features of navigation control. Define SiteMapPath control. (5)
- b) Explain any five properties of TreeView control. (5)

**UNIT – II**

5. a) Explain any four validation controls in details. (4)
- b) Explain Check box and Radio button controls with example for each. (6)

6. a) Explain briefly any three public events of Login Status control. (6)  
b) What is the use of PasswordRecovery control? Explain? (4)

7. a) What is WebPartManager control? Explain some of the important task that it performs. (6)  
b) Write a note on Menu control. (4)

### UNIT – III

8. a) Explain Data Adapter and Data sets. (6)  
b) Explain any four important properties of GridView control. (4)

9. a) Explain in detail the SQL select statement? Give an example. (6)  
b) List and explain any three public events of a Data List Control. (4)

10. a) Explain any two data source control in ASP.NET. Give any two properties of each control. (8)  
b) Define DetailsView control. (2)

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