

**D 677**

**Reg. No. : .....**  
**Q.P. Code : [D 07 PCS 05]**

(For the candidates admitted from 2007 onwards)

**M.Sc. DEGREE EXAMINATION, DECEMBER 2009.**

Second Year

Computer Science

Advanced Operating System

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. (a) List the most common classes of interrupts and explain the interrupt processing. (8)  
(b) Discuss about process creation and termination. (12)
2. (a) How are semaphores used to solve producer – consumer problem? (12)  
(b) Discuss the issues related to message passing systems. (8)

3. (a) Describe the readers and writers problem. (12)  
(b) Explain about Mutexes. (8)
4. (a) Describe the model of Remote procedure care. (8)  
(b) Discuss the issues that need to be considered for server management. (12)
5. (a) Explain the file – accessing models of a distributed file system. (12)  
(b) What are the potential benefits of the replication of data in a distributed system?(8)
6. Discuss about the internal representation of files on UNIX system. (20)
7. (a) Explain the algorithm for wait. (8)  
(b) Describe the system boot and the init process with respect to UNIX system. (12)
8. Write a note on the following :  
(a) Implementing threads in user space. (10)  
(b) Architecture of the UNIX operating system. (10)

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Second Year

Computer Science

**INTERNET PROGRAMMING AND WEB DESIGN**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

3. (a) Explain an array in JavaScript with suitable example. (10)  
(b) What is CSS? Explain various kinds of cascading style sheets. (10)
4. (a) Discuss about the event handlers in DHTML. (10)  
(b) Explain the filters and transitions in DHTML. (10)
5. (a) Describe about the server side Active X components. (10)  
(b) What is DTD? Explain it with an example. (10)
6. (a) Explain an ordered and unordered list in HTML. (10)  
(b) Discuss about the HTML forms with suitable example. (10)
7. (a) Describe briefly the objects in Java Script. (10)  
(b) Explain the Regular Expressions in PERL programming. (10)
8. Write short notes on the following :
  - (a) Java Script Methods (7)
  - (b) Filters in DHTML (7)
  - (c) Client-side scripting using ASP. (6).
1. (a) Explain about the tables and frames in HTML. (10)  
(b) Briefly discuss the image map with an example. (10)
2. (a) Discuss various control structures available in Java Scripts. (10)  
(b) Write short notes on functions in Java Script. (10)

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**D 679**

**Q.P. Code : [D 07 PCS 07]**

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**M.Sc. DEGREE EXAMINATION, DECEMBER 2009.**

Second Year

Computer Science

**DATA MINING AND WAREHOUSING**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. Describe the basic data mining tasks in detail. (20)
2. (a) Discuss about various issues related to data mining. (12)  
(b) Explain the data mining from a database perspective. (8)
3. (a) Describe the role of genetic algorithms in data mining. (10)  
(b) Discuss about neural networks. (10)

4. (a) Explain the importance of any two decision tree-based algorithms. (10)  
(b) Discuss the statistical based algorithms for classification. (10)
5. (a) Describe the concept of outliers. (5)  
(b) Give an overview of partitional algorithms. (15)
6. (a) What are the factors to be considered when comparing association rule algorithms? Explain. (10)  
(b) Discuss the features of multiple-level and quantitative association rules. (10)
7. (a) State the characteristics of a data warehouse. (3)  
(b) Explain the online analytical processing in detail. (17)
8. (a) Describe the crucial decisions in designing a data warehouse. (8)  
(b) Explain the possible areas for applications of data warehousing and data mining in Central Government sectors. (12)