

Reg. No. : .....

**D 2189**

**Q.P. Code : [D 07 PCS 05]**

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

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) How are process created and terminated?  
Explain. (8)
- (b) Give an overview of operating system  
concepts. (12)
2. (a) Describe the thread model and explain the  
thread usage in detail. (8)
- (b) Explain how are threads implemented in  
user space and in the kernel. (12)
3. (a) Discuss the interprocess communication  
aspects. (12)
- (b) Describe the dining philosopher's problem. (8)

4. (a) How are distributed computing system models classified? Discuss. (8)
- (b) Explain the issues associated with server management and implementing RPC mechanism. (12)
5. Discuss the various aspects related with designing of a distributed file system. (20)
6. (a) Explain the architecture of Unix operating system. (6)
- (b) Describe the structure of a regular file and the layout of system memory in Unix. (14)
7. (a) Write the algorithms for Init process and for booting the Unix system. (8)
- (b) Elaborate the Unix process scheduling. (12)
8. Write short notes on the following :
  - (a) Features of computer hardware (8)
  - (b) Communication Protocols for RPCs (6)
  - (c) Procedure for fork system call and Exec. (6)

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**D 2190**

**Q.P. Code : [D 07 PCS 06]**

(For the candidates admitted from 2007 onwards)

**M.Sc. DEGREE EXAMINATION, MAY 2014.**

**Second Year**

**Computer Science**

**INTERNET PROGRAMMING AND WEB DESIGN**

**Time : Three hours**

**Maximum : 100 marks**

**Answer any FIVE questions.**

**(5 × 20 = 100)**

1. (a) Describe the basic forms of HTML lists and basics of HTML tables. (10)  
(b) Explain the important aspects related with HTML forms. (10)
2. (a) How are images maps created and used? Discuss. (8)  
(b) Elaborate how to define and how to use functions in Java Script. (12)
3. Give an overview Java Script control structures. (20)

4. (a) Describe the usage of arrays in Java Script. (10)  
(b) What are Java Script objects? List the various Java Script objects and explain their roles with examples. (10)
5. (a) Explain the features of different kinds of filters in detail. (10)  
(b) Give an introduction to VB Script. (10)
6. (a) Describe the various aspects associated with DHTML event model. (12)  
(b) Explain the style sheet basics and discuss how to add style to a document. (8)
7. (a) Discuss the following with respect to ASP  
(i) Client-side scripting and server-side scripting  
(ii) Active server components. (10)  
(b) Elaborate the XML document type definitions and the role of XML parsers. (10)
8. Explain the important features of CGI and Perl. (20)

Reg. No. : .....

D 2191

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2014.

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. (a) Describe the basic data mining tasks. (15)  
(b) What are the steps associated with the KDD process? Explain. (5)
2. (a) Discuss the implementation issues related to data mining. (10)  
(b) Explain the statistical concepts that are the basis for data mining techniques. (10)
3. (a) Write the features of ID3 and CART. (8)  
(b) Discuss the key aspects of neural network based classification algorithms. (12)

4. Give an overview of hierarchical and non-hierarchical clustering algorithms.
  5. (a) What are data and task parallelism? Discuss. (6)  
(b) Describe the important aspects of various advanced association rule techniques. (14)
  6. (a) Write a detailed note on data mart. (12)  
(b) Explain the features of Cognos power play. (8)
  7. (a) Elaborate the areas for applications of data mining and data warehousing in government sectors. (15)  
(b) Discuss the data warehouse architectural strategies and organizational issues. (5)
  8. (a) Describe the crucial decisions to be taken when designing a data warehouse. (10)  
(b) Compare OLAP and OLTP systems and explain the classification of OLAP tools. (10)
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