

Reg. No. : .....

**D 1780**

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

(For candidates admitted from 2007 onwards)

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

**Second Year**

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**Computer Science**

**ADVANCED OPERATING SYSTEM**

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

(5 × 20 = 100)

1. ~~X~~ (a) Describe the evolution of operating systems. (12)

(b) Name the principal events that cause processes to be created and briefly explain. (8)

2. ✓ (a) Give the reasons for having threads. (8)

(b) Describe the implementing threads in user space and in the Kernal. (12)

3. (a) Discuss about mutual exclusion with busy waiting. (12)

(b) Write a note on mutexes. (8)

4. (a) Explain the interprocess communication primitives, called as sleep and wakeup. (8)

(b) Describe the dining philosophers problem. (12)

5. (a) Discuss the important aspects associated with implementation of RPC mechanism. (10)

(b) State and explain the desirable features of a good distributed file system. (10)

6. (a) Explain the architecture of the UNIX operating system. (10)

(b) Discuss about the process states and transitions in UNIX. (10)

7. (a) Describe the algorithm for booting the system. (8)

(b) Explain the process scheduling on the UNIX system. (12)

8. Write a note on the following :

(a) RPC messages. (8)

(b) File - caching scheme for a distributed file system. (12)

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**D 1782**

**Q.P. Code : ID 07 PCS 071**

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 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. ✓ (a) What are the steps involved in the KDD process? Explain. (8)

(b) Discuss the important implementation issues associated with data mining. (12)

2. Explain the statistical concepts that are the basis for data mining techniques. (20)

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3. (a) Describe the role of decision trees in data mining. (8)

(b) Explain the usage of neural networks in detail. (12)

4. (a) List and explain briefly the three basic methods used to solve the classification problem. (8)

(b) Discuss about the rule-based algorithms for classification. (12)

5. ✓ (a) Explain how hierarchical algorithms are used for clustering. (10)

(b) Describe the importance of any two partitional algorithms in clustering. (10)

6. ✓ (a) What are data parallelism and task parallelism? Discuss. (8)

(b) Explain any two advanced association rule techniques. (12)

7. ✓ (a) Give an overview of data marts. (12)

(b) Explain the different categories of OLAP tools. (8)

8. ✓ (a) Describe the technological considerations for designing and implementing a data warehouse. (8)

(b) Discuss the applications of data warehousing and data mining in government sectors. (12)

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D 1781

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

(For the candidates admitted from 2007 onwards)

M.Sc. DEGREE EXAMINATION, MAY 2009.

Second Year

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Computer Science

INTERNET PROGRAMMING AND WEB DESIGN

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

(5 × 20 = 100)

2  
1.

(a) Describe the tags that are commonly used in documents head. (10)

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(b) Explain the ordered and unordered list in HTML. (10)

3  
2.

(a) Explain any ten methods available in Java script. (10)

(b) Discuss about the control structures in Java script. (10)

3. (a) Explain the usage of arrays in Java script (10)  
with suitable example.

(b) What is CSS? Explain three kinds of cascading style sheets? (10)

4. (a) Explain the properties of navigator object. (10)

(b) Discuss about the event handlers in DHTML. (10)

5. (a) Describe about the active server pages. (10)

(b) What is DTD? Explain it with an example. (10)

6. (a) Discuss about the table and frame in HTML. (10)

(b) Write a program to create a time table in HTML. (10)

(a) Explain various data types available in VB script. (10)

(b) Discuss about Regular expression in PERL. (10)

Write notes on the following :

(a) Client-side scripting with ASP. (7)

(b) Server-side scripting with ASP. (7)

(c) ODBC connection. (6)