

FACULTY OF SCIENCE  
M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2016  
DATA WAREHOUSING AND DATA MINING

**PAPER – I**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Associate rules
2. Clustering
3. Life cycle of data
4. Dimensional model versus ER model
5. Key in the data warehouse schema

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Explain briefly related disciplines of data mining?  
(OR)  
b) Write about the Apriori Algorithm?
7. a) What is classification? Briefly explain its techniques?  
(OR)  
b) Write about partitioning methods.
8. a) What is data warehouse? Write about its capabilities?  
(OR)  
b) Explain the information flow mechanism?
9. a) Define data mart? Explain issues in building data marts?  
(OR)  
b) Explain fact constellation schema with suitable example?
10. a) Write about data quality in the ETL process?  
(OR)  
b) Give a short note on following?
  - i) OLAP operations
  - ii) OLAP models

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DATAWARE HOUSING & DATA MINING

**PAPER – I**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Write the motivation for data ware housing.
2. What is meant by Regression?
3. What are the benefits of Data ware housing?
4. Write the goals of data ware housing.
5. What is meant by data extraction.

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) What are the data models? Explain each model with suitable example.  
(OR)  
b) Discuss the various mining association rules.
7. a) i) Explain the evaluation of clusters.  
ii) Write the issues of classification.  
(OR)  
b) Discuss the classification of clustering algorithms.
8. a) i) Explain the demand for strategic information.  
ii) Write the benefits and concerns of data warehousing.  
(OR)  
b) What is the life cycle of a data? Write about data flow from warehouse to operational systems.
9. a) Give the architecture of dataware house and discuss the strength of data mining.  
(OR)  
b) List the characteristics of dimension table and describe fact table.
10. a) What is ETL Process? Explain about transformation and loading.  
(OR)  
b) Discuss the functions and applications of OLAP.

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**DATAWARE HOUSING & DATA MINING**  
PAPER –I

Time: 2 hours]

[Max. Marks: 70

Answer any **FIVE** from the following questions in not more than **FOUR** pages each: (5x14=70)

1. What is OLAP? Explain User's perspective.
2. What are Mining Association Rules? Write the applications of Frequent Pattern Matching.
3. Explain classification techniques in detail.
4. Define Clustering? Write the applications of Clustering? Describe the classification of Clustering Algorithms.
5. Describe the issues and challenges of Data Mining.
6. Explain the Benefits and Concerns of Data Warehousing.
7. Describe Star Schema and Snow flake schema.
8. What is Dimensional Modeling? Write the characteristics of Dimension Table.
9. Explain Data Extraction and Transformation.
10. Describe OLAP Tools and Products in detail.

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UNIX PROGRAMMING

**PAPER – III**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Explain the syntax and functionality of 'grep' command. List its advantages
2. Write briefly about the Daemon process
3. Write syntax of the following system calls  
a) Socket    b) Socketpair    c) bind    d) Connect
4. How do we write 'Regular Expression' in PERL?
5. How do we handle strings in python?

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Write about the Unix File System.  
b) Write about UNIX Shell.  
(OR)  
c) Write about Unix Regular expressions.
7. a) What is a signal? When does it occur? How and when are signals sent?  
b) Write briefly about the following:  
1. SIGALARM    2. SIGINT    3. SIGIO    4. SIGKILL  
(OR)  
c) Write about the following process control system calls.  
1. fork    2. Exit    3. exec    4. wait
8. a) Write about the following socket system calls.  
1. readv    2. Writev    3. Sendmsg    4. recvmsg  
(OR)  
b) Write about the following socket system calls.  
1. getpeername    2. getsocketname    3. getsockopt    4. setsockopt
9. a) Write about associative arrays in PERL. ✓  
b) Explain about PERL subroutine. ✓  
(OR)  
c) Describe PHP session in detail with examples and sample code.
10. a) Write in detail, the syntax and working of any two python looping statements with suitable examples.  
(OR)  
c) Discuss about the exception handling in python.

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M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2017  
WEB PROGRAMMING

**PAPER –IV**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Distinguish between static HTML and Dynamic HTML
2. Briefly explain about event model
3. What is recursion? Explain
4. Explain about function in VB script
5. Briefly explain about XML Parsers

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Explain about tabs and formatting in HTML with examples.  
(OR)  
b) What are user style sheets? Explain in detail with examples.
7. a) Explain in detail about children frames.  
(OR)  
b) Discuss about data binding with tabular data in detail.
8. a) Explain the following: Java script control structures:  
i) Switch ii) if iii) if-else  
(OR)  
b) What are global functions in Java script? Explain usage of arrays in Java Script.
9. a) Explain about classes and objects in VB Scripts.  
(OR)  
b) Discuss in detail about Apache web server.
10. a) Explain the following:  
i) ADO ii) CGI and PERL  
(OR)  
b) Explain the following:  
i) Processing and regular expressions  
ii) XML usage with HTML

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M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2017  
UNIX PROGRAMMING  
PAPER –III

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Write and explain basic UNIX commands.
2. Explain namespaces.
3. Write about ports.
4. Explain arrays in Perl.
5. Explain Errors and Exceptions in Python.

Section – B

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Explain, in detail File System Security and File Permissions.  
(OR)  
b) What is Shell? What are the different types of Shells present? Explain shell programming with any 2 programs.
7. a) Explain UNIX Model with Process Control.  
(OR)  
b) What is Inter Process Communication (IPC)? Explain, How to achieve with Locking and Pipes in UNIX?
8. a) What is Socket? Explain Elementary socket system calls with Client-Server program.  
(OR)  
b) Explain the following  
i. asynchronous I/O      ii. Out-off band data
9. a) i. Explain Control statements of Perl.  
ii. Write a program to print even numbers using Perl.  
(OR)  
b) i. Explain operations and expressions of PHP.  
ii. Explain functions and pattern matching in PHP.
10. a) Explain Sequences (Strings, Lists, and Tuples) of Python.  
(OR)  
b) Explain Files in Python.

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M.C.A. IV - SEMESTER REGULAR BACKLOG EXAMINATIONS, JULY- 2021  
UNIX PROGRAMMING  
PAPER - III

Time: 2 hours]

[Max. Marks: 70

Answer any FIVE from the following questions in not more than FOUR pages each: (5x14=70)

1. Explain UNIX File System architecture.
2. Explain regular expressions in detail in UNIX.
3. Explain various locking techniques used in UNIX.
4. Explain Streams and Message.
5. Explain Elementary System Calls.
6. Explain Asynchronous I/O and I/O Multiplexing.
7. Explain usage of control statements and function in Perl.
8. Explain Permissions and Access Modes of File.
9. Discuss about Python and its uses.
10. Explain Exception Handling in Python.

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WEB PROGRAMMING

PAPER –IV

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A

Answer the following questions in not more than **ONE** page each:

(5x4=20)

1. Explain Formatting Text?
2. Explain Error Handling?
3. What is Recursion?
4. Explain Class and Object?
5. Explain ADO?

Section – B

Answer the following questions in not more than **FOUR** pages each:

(5x10=50)

6. a) Explain Order list and Unorderlist?  
(OR)  
b) What is Cascading Style Sheets with the help of suitable example?
7. a) Explain about Object Referencing and navigator object?  
(OR)  
b) Discuss about i) ONBLUR ii) ONLOAD iii) ONSUBMIT
8. a) What is an Operator? Explain Increment and Decrement Operator with Example?  
(OR)  
b) Write a java script Program to find prime numbers from 1 to 100?
9. a) Explain Internet Information Server briefly?  
(OR)  
b) Discuss about i) Apache Web Server ii) Personal Web Server
10. a) Explain Document Type Definition and Session Tracking?  
(OR)  
b) Explain client Side Scripting and Server Side Scripting?



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**WEB PROGRAMMING**  
PAPER –IV

Time: 2 hours]

[Max. Marks: 70

Answer any **FIVE** from the following questions in not more than **FOUR** pages each: (5x14=70)

1. Explain Complex forms Linking and Meta tag?

2. Explain about different types of style sheets with examples.

3. Explain about Object Referencing and navigator object?

4. Discuss about

i) ONBLUR ii) ONLOAD iii) ONSUBMIT.

5. What is an Operator? Explain Increment and Decrement Operator with Example?

6. Write a java script Program to find prime numbers from 1 to 100?

7. What is VB Script? Explain String Manipulation in VB Script.

8. Explain the features of any two Web Servers.

9. Explain Document Type Definition and Session Tracking?

10. Explain client Side Scripting and Server Side Scripting?

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M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY, 2016  
COMPUTER NETWORKS

**PAPER –II**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Components of Data Communication
2. What is CRC method Give on example?
3. What is Distance vector Routing
4. Explain about Quality of Services
5. What is domain name space

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Discuss in detail about different topologies.

(OR)

- b) Write in detail about different Transmission media.

7. a) With a neat example explain the procedure of sliding window ARQ.

(OR)

- b) Explain in detail about IEEE 803.4 MAC Layer.

8. a) Discuss briefly about IP addressing.

(OR)

- b) With an example explain Link State routing algorithm.

9. a) Discuss about Time Division Multiplexing.

(OR)

- b) Discuss in detail about connection establishment in Transport Layer.

10. a) What are the Get and Post methods in HTTP and what are the difference of Get and Post methods.

(OR)

- b) What is SMTP write the functions of SMTP and limitations of SMTP.

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Code No.1742

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M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2017  
COMPUTER NETWORKS

**PAPER –II**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each: (5x4=20)

1. Transmission Media.
2. Fast Ethernet.
3. Distance Vector Routing.
4. Multiplexing.
5. Domain Name Service (DNS).

**Section – B**

Answer the following questions in not more than **FOUR** pages each: (5x10=50)

6. a) Write a comparative note on OSI model and TCP/IP model.  
(OR)  
b) What is protocol architecture? Explain.
7. a) Explain about error detection and error control techniques in data link layer.  
(OR)  
b) What is piggybacking? Explain GO Back N protocol.
8. a) Explain in detail about the following:  
1) Open Shortest Path First (OSPF) 2. Border Gateway Protocol (BGP)  
(OR)  
b) Draw the IPv6 datagram format and explain in detail about each field.
9. a) Write in detail as to how Congestion control is addressed in TCP.  
(OR)  
b) Explain about User Datagram Protocol (UDP).
10. a) Discuss about WWW and HTTP.  
(OR)  
b) What is SMTP? Elaborate.

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Code No.1742

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**COMPUTER NETWORKS**

PAPER –II

Time: 2 hours]

[Max. Marks: 70

Answer any **FIVE** from the following questions in not more than **FOUR** pages each: (5x14=70)

1. Explain ISO/OSI reference model.
2. Explain in detail various types of Transmission Media.
3. What is Error Control? Explain different methods.
4. What is Flow Control? Explain different Flow Control Methods.
5. Explain different packet forwarding mechanisms.
6. Explain any one Routing algorithm in detail.
7. Explain Transmission Control Protocol.
8. Explain User Datagram Protocol.
9. Discuss about Simple Mail Transfer Protocol.
10. Discuss about Hyper Text Transfer Protocol.

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5022-14-882-009.

Code No.1745b

FACULTY OF SCIENCE  
M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2016  
DISTRIBUTED SYSTEMS

**PAPER – Vb**

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

**Section – A**

Answer the following questions in not more than **ONE** page each:

(5x4=20)

1. What is a thread and process?
2. Explain Logical Clock
3. What is process resilience?
4. Write a note on object based system
5. Discuss about memory coherence

**Section – B**

Answer the following questions in not more than **FOUR** pages each:

(5x10=50)

6. a) Define Distributed System. Discuss its goals and Hardware and Software concepts.  
(OR)  
b) What is client/server model? Explain code migration.
7. a) Write a note on DNS and X-500.  
(OR)  
b) Discuss Election Algorithms and Mutual Exclusion.
8. a) Describe Data center and Client Center Consistory Models?  
(OR)  
b) What is fault tolerance? Explain Reliable Client-Server and group communication.
9. a) Discuss CORBA architecture with neat diagram.  
(OR)  
b) What is distributed file system? Explain SUN NFS system.
10. a) Explain Implementation Algorithms of Distributed Shared Memory?  
(OR)  
b) Discuss Issues and Algorithms of Load distributing.

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5022-15-862-011

Code No.1745b

FACULTY OF SCIENCE  
M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, MAY 2017  
DISTRIBUTED SYSTEMS  
PAPER – V b

Time: 3 hours]

[Max. Marks: 70

Note: Answer all questions from Section – A and Section – B

Section – A

Answer the following questions in not more than ONE page each: (5x4=20)

1. Briefly explain about Distributed Systems goals?
2. Discuss about DNS.
3. Discuss about consistency protocol.
4. Briefly discuss about D-COM.
5. Discuss the issues in Load Distributing.

Section – B

Answer the following questions in not more than FOUR pages each: (5x10=50)

6. a) Explain about software agents in detail.  
(OR)  
b) Describe Client Server model.
7. a) Explain the steps in locating mobile entities.  
(OR)  
b) Describe election algorithms in detail.
8. a) Discuss about Data-Centric Models.  
(OR)  
b) Discuss about Reliable Client-Server and Group Communication.
9. a) Explain CORBA in detail.  
(OR)  
b) Describe Distributed File System in detail.
10. a) Describe memory coherence in Distributed Shared Memory?  
(OR)  
b) Explain the components of Load Distributing Algorithms.

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Code No.1745A

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ARTIFICIAL INTELLIGENCE

PAPER – V (a)

Time: 2 hours]

[Max. Marks: 70

Answer any **FIVE** from the following questions in not more than **FOUR** pages each: (5x14=70)

1. Describe the Criteria for Success.
2. Explain the Production System Characteristics.
3. Explain Hill Climbing Search Technique.
4. Describe how to represent simple Facts in Logic.
5. Explain Procedural versus Declarative Knowledge.
6. Describe how to implement Depth-First Search.
7. What is Statistical Reasoning? Explain Bayes Theorem.
8. Explain Semantic Nets and Frames.
9. Explain the Minimax Search Procedure.
10. Describe Goal Stack Planning.

Code No.1745B

FACULTY OF SCIENCE  
M.C.A. IV – SEMESTER REGULAR/BACKLOG EXAMINATIONS, JULY- 2021  
DISTRIBUTED SYSTEMS

PAPER – V (b)

Time: 2 hours]

[Max. Marks: 70

Answer any **FIVE** from the following questions in not more than **FOUR** pages each: (5x14=70)

- 1) List and explain the goals of Distributed Systems.
2. List and explain general design issues for servers.
3. What is DNS name space? Explain its implementation.
- 4) Give Brief note on clock Synchronization
5. Write about Data-Centric Consistency Models.
6. Briefly explain process resilience.
7. What is CORBA? Explain its communication models.
8. Give a brief note on distributed File System.
9. What do you mean by distributed shared memory? List and explain its design issues.
- 10) Give a brief note on Load Distributing Algorithms.

Common subject

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