LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Reaccredited with 'A' Grade by NAAC)

MCA (IV semester) Semester End Examination, April - 2017

Subject : Web Programming **Exam Time : 3hrs**
Sub Code : MCA 11404 **Max. Marks : 100**

UNIT –I

1. a) Explain multiple subscripted arrays with sample code. **(10M)**
   b) Write about methods in string object. Write a java script Program to demonstrate searching methods in a string. **(10M)**

(Or)

2. a) What are reference parameters? Explain how to pass array to functions. **(10M)**
   b) Differentiate between recursion and Iteration. Write a Java script program to calculate i^{th} fibonaci number using recursion . **(4+6M)**

UNIT –II

3. a) Explain various cascading style sheets with sample code for each. **(12M)**
   b) Explain about object referencing with sample code. **(8M)**

(Or)

4. a) Explain the following with sample code for each: **(4*5=20M)**
   (i) Onclick (ii) Onload (iii) Onmouse move (iv) Onerror

UNIT –III

5. a) Explain Glow & Image filters with sample code. **(8M)**
   b) Explain the process of binding data to table element and Img elements. **(12M)**

(Or)

6. a) Explain various control structures in VB Script. **(12M)**
   b) Explain Arrays in VB Script with sample Code. **(8M)**

UNIT –IV

7. Explain the overview and installation of Personal Web Server. **(20M)**

(Or)

8. a) Explain File System objects in ASP. **(10M)**
   b) Explain how to access database from ASP. **(10M)**

UNIT –V

9. a) Explain XSL with a sample Code. **(10M)**
   b) Write about XML Parsers. **(10M)**

(Or)

10. a) Explain about RIA. **(10M)**
    b) Explain AJAX using XML Http Request object. **(10M)**

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (IV semester) Semester End Examination, April - 2017

Subject	**: Data Warehousing & Data Mining**	**Exam Time**	**: 3hrs**
Sub Code	**: MCA 11401**	**Max. Marks**	**: 100**

Answer any one from each unit:

UNIT-I

1. a) Explain Data Warehousing , Data Mining and Data Models. **(15+5)**
   b) Discuss about the future trends in DWH.

(Or)

2. Explain about Mining Association rules and Applications. **(20)**

UNIT-II

3. a) Give a brief note on applications of classification. **(8+12)**
   b) Describe various classification Techniques.

(Or)

4. (a) Discuss about measurement of similarity. **(6+14)**
   (b) Explain Hierarchical and Partitioning clustering Methods.

UNIT-III

5. a) What are the current trends in DM. **(10+10)**
   b) Explain the benefits of DWH.

(Or)

6. a) Describe the life cycle of Data with the help of a diagram. **(10+10)**
   b) What is meta data? Explain the importance of meta data in DWH.

UNIT-IV

7. a) Explain the characteristics and goals of DWH Architecture. **(10+10)**
   b) Discuss the issues in building Data marts.

(Or)

8. a) Write the characteristics of a fact table. **(10+10)**
   b) Explain about Snow flake Schema.

UNIT-V

9. Explain about the ETL Process in detail. **(20)**

(Or)

10. a) Explain various OLAP Models. **(15+5)**
    b) Write notes on Performance enhancement using Data Ware house

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (IV semester) Semester End Examination, April - 2017

Subject	: **Distributed System**	**Exam Time**	: **3hrs**
Sub Code	: **MCA 11406**	**Max. Marks**	: **100**

Answer the following questions:

UNIT-I

1. a) Define Distributed System and Explain about the goals of distributed system? **(10M)**
   b) Explain about hardware concepts in distributed system? **(10M)**

(Or)

2. a) Explain about code migration concept? **(10M)**
   b) Write about clients and Servers processes in Distributed System? **(10M)**

UNIT-II

3.a) What is X. 500 ? What service it provide? Explain it's architecture? **(10M)**
   b) Write short note on DNS? **(10M)**

(Or)

4.a) What is Synchronization clock and use of synchronized clocks? **(10M)**
   b) Explain about mutual exclusion concept? **(10M)**

UNIT-III

5. a) Explain about client- centric consistency models? **(10M)**
   b) Explain about Distributed Protocols? **(10M)**

(Or)

6. a) Explain about process resilience? **(10M)**
   b) Explain about commit and recovery concept? **(10M)**

UNIT-IV

7. a) Explain about D-COM concept in distributed object based system? **(10M)**
   b) Explain the SUN Network File System concept? **(10M)**

(Or)

8. a) Explain about distributed file system implementation concept? **(10M)**
   b) What is semantics of file sharing? **(10M)**

UNIT-V

9. a) What is Distributed shared memory and write design issues? **(12M)**
   b) Classify Distributed shared memory algorithms explain any one? **(08M)**

(Or)

10. a) Explain briefly issues in Load based distributing? **(10M)**
    b) Classify load distributed algorithm? Explain any one of them? **(10M)**

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MCA (IV semester) Semester End Examination, April - 2017

Subject : Unix Programming **Exam Time : 3hrs**

Sub Code : MCA 11403 **Max. Marks : 100**

Answer the following questions: **(5*20=100M)**

UNIT-I

1. a) Explain about AWK programming with an example? **(10M)**
   b) What is Unix ? Explain about various Unix commands? **(10M)**

(Or)

2. a) Write short notes on shell programming with an example? **(10M)**
   b) Explain about security levels and file permissions? **(10M)**

UNIT-II

3. a) Explain about Elementary socket system calls? **(10M)**
   b) Define and Explain reserved ports? **(10M)**

(Or)

4. a) Explain about internet super server? **(10M)**
   b) Explain about connection oriented client server communication? **(10M)**

UNIT-III

5. a) Explain about control statements? **(10M)**
   b) Explain the origin and uses of perl? **(10M)**

(Or)

6. a) Explain about scalar variables? **(10M)**
   b) Explain about the common gateway interface using perl for cgi programming? **(10M)**

UNIT-IV

7. a) Write short notes on operations and expressions in php? **(10M)**
   b) Explain about syntactic characteristics of php? **(10M)**

(Or)

8. a) Explain about functions in php? **(10M)**
   b) Explain about parameter passing mechanisms of php? **(10M)**

UNIT-V

9. a) What is python? Explain the features of python? **(10M)**
   b) Explain about strings and lists?

(Or)

10. a) Explain about mapping and set types of python? **(10M)**
    b) Explain about functional programming of python? **(10M)**

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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MCA (IV semester) Semester End Examination, April - 2017

Subject	**: Distributed System**	**Exam Time**	**: 3hrs**
Sub Code	**: MCA 11406**	**Max. Marks**	**: 100**

Answer the following questions:

UNIT-I

1. a) Define Distributed System and Explain about the goals of distributed system? **(10M)**
   b) Explain about hardware concepts in distributed system? **(10M)**

(Or)

2. a) Explain about code migration concept? **(10M)**
   b) Write about clients and Servers processes in Distributed System? **(10M)**

UNIT-II

3.a) What is X. 500 ? What service it provide? Explain it's architecture? **(10M)**
   b) Write short note on DNS? **(10M)**

(Or)

4.a) What is Synchronization clock and use of synchronized clocks? **(10M)**
   b) Explain about mutual exclusion concept? **(10M)**

UNIT-III

5. a) Explain about client- centric consistency models? **(10M)**
   b) Explain about Distributed Protocols? **(10M)**

(Or)

6. a) Explain about process resilience? **(10M)**
   b) Explain about commit and recovery concept? **(10M)**

UNIT-IV

7. a) Explain about D-COM concept in distributed object based system? **(10M)**
   b) Explain the SUN Network File System concept? **(10M)**

(Or)

8. a) Explain about distributed file system implementation concept? **(10M)**
   b) What is semantics of file sharing? **(10M)**

UNIT-V

9. a) What is Distributed shared memory and write design issues? **(12M)**
   b) Classify Distributed shared memory algorithms explain any one? **(08M)**

(Or)

10. a) Explain briefly issues in Load based distributing? **(10M)**
    b) Classify load distributed algorithm? Explain any one of them? **(10M)**

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A IV Semester Supplementary Examination, Oct/Nov - 2017

Subject : Dataware Housing Data Mining **Exam Time : 3 hrs**

Sub. Code : MCA 11401 **Max. Marks : 100**

UNIT-I

1. a) Discuss different types of patterns in Data Mining. **(8M)**
   b) Discuss about Data Models. **(5M)**
   c) What is incremental pattern discovery? How is it done? **(7M)**

(Or)

2. a) Discuss the Application of association analysis.
   b) Show the steps of Apriori on the following dataset with mincount=3.Show candidate and frequent itemsets of each length.
   Dataset:deflmkp, mpfalc, cpmjfa, jkogb, lefcnpm.

UNIT-II

3. a) Briefly describe the Naive Bayes and K-MN approaches to classification. **(10M)**
   b) Write short notes on Regression **(10M)**

(Or)

4. a) Write the Applications of clustering **(10M)**
   b) Define OUTLIER Detection and discuss methods of OUTLIER methods. **(10M)**

UNIT-III

5. a) Write the major issues in Data Mining. **(10M)**
   b) Define Data Warehouse? Write benefits and concerns of Data Warehouse. **(10M)**

(Or)

6. a) Discuss Data flow from Warehouse to Operation System. **(10M)**
   b) Explain the following: **(10M)**
   (i) Granularity (ii) metadata (iii) Information flow mechanism

(P.T.O)

UNIT-IV

7. a) Explain the Architecture of Data Warehouse. **(10M)**
   b) Define the following terms: **(10M)**
   (i) Data mart (ii) Fact table (iii) Cyclicity of data

(Or)

8. a) Discuss in detail about Star Schema and Snowflake Schema. **(10M)**
   b) Write the characteristics of dimensional table. **(10M)**

UNIT-V

9. a) Define the following terms: **(4*5=20M)**
   (i) Data Extraction (ii) Transformation (iii) Loading Quality
   (iv) Multidimensional analysis

(Or)

10. a) Write Short notes on Applications of OLAP in the real world. **(10M)**
    b) Explain Various OLAP Models. **(10M)**

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Affiliated to Osmania University)

M.C.A IV Semester Supplementary Examination, Oct/Nov-2017

Subject : Computer Networks
Sub Code : MCA 11402

Exam Time : 3hrs
Max. Marks : 100

Answer the following questions: (5*20=100M)

UNIT-I

1. a) With a neat diagram explain about TCP/IP reference model. (10M)
   b) Explain about two Guided media. (10M)

(Or)

2. a) Differentiate between Digital data transmission and Analog Transmission. (10M)
   b) What is Topology? Explain different types of Topologies in computer networks. (10M)

UNIT-II

3. Write short notes on: (i) Stop-and-wait ARQ (ii) Go-Back-N ARQ (12M)
   (iii) Difference between Go-Back-N and Selective Repeat Protocol. (8M)

(Or)

4. Explain about: (i) Pure ALOHA (ii) Slotted ALOHA (iii) CSMA
   (iv) CSMA/CD. (4*5=20M)

UNIT-III

5. a) Explain about different Connecting Devices In Computer Networks. (10M)
   b) Explain about Link State Routing Algorithm. (10M)

(Or)

6. a) Explain about Distance-Vector Routing Algorithm. (10M)
   b) Differentiate between Virtual Circuits & Datagram Networks. (10M)

UNIT-IV

7. a) Write Short notes on Transport Layer Services. (10M)
   b) Explain about Connection Establishment mechanism in Transport Layer. (10M)

(Or)

8. a) Explain about TCP Header Format. (10M)

   b) What is congestion? Explain about TCP congestion control mechanism. (10M)

(P.T.O)

UNIT-V

9. Discuss about: (i) DNS (ii) SMTP (iii) FTP **(20M)**

(Or)

10). Explain About the following terms. **(20M)**

(i)HTTP (ii) WWW (iii) SNMP

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MCA (IV semester) Supplementary Examination, Oct/Nov-2017

Subject : Unix Programming **Exam Time : 3hrs**

Sub Code : MCA 11403 **Max. Marks : 100**

Answer the following questions: **(5*20=100M)**

UNIT-I

1. a) Explain the difference between a time-sharing and a client/server environment. **(10M)**
   b) What is Unix? Explain about Regular Files and Directories. **(10M)**

(Or)

2. a) Write short notes on Regular expression with an example? **(8M)**
   b) What are the three levels of security in Unix and explain briefly. **(12M)**

UNIT-II

3. a) Explain about advanced socket system calls? **(12M)**
   b) Define and Explain Pipes? **(8M)**

(Or)

4. a) Explain about Input/output Multiplexing? **(10M)**
   b) Explain about Internet Super server? **(10M)**

UNIT-III

5. a) Explain about Functions? **(10M)**
   b) Explain the Pattern Matching in Perl? **(10M)**

(Or)

6. a) Explain about Architectures for Database Access? **(10M)**
   b) Explain about the Query String Format using Perl for CGI programming? **(10M)**

UNIT-IV

7. a) Write short notes on Primitives and Expressions in PHP? **(10M)**
   b) Explain about Control statements in PHP? **(10M)**

(Or)

8. a) Explain about Arrays in PHP? **(10M)**
   b) Explain about Cookies of PHP? **(10M)**

UNIT-V

9. a) What is python? Explain about Python Objects? **(10M)**
   b) Explain about Tuples and lists? **(10M)**

(Or)

10. a) Explain about Functions and Modules of python? **(10M)**
    b) Explain about Errors and Exception handling in python? **(10M)**

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M.C.A IV Semester Supplementary Examination, Oct/Nov - 2017

Subject : Web Programming — Exam Time : 3 hrs

Sub. Code : MCA 11404 — Max. Marks : 100

UNIT-I

1. a) What are the different types of Java Script data types? Explain. **(10M)**

   b) Explain JavaScript Control Structures if else and while with example in web programming. **(10M)**

(Or)

2. a) Differentiate between Recursion and Iteration. Write a Java Script program to find n^{th} prime number using Recursion. **(12M)**

   b) Explain the Java Script passing array to functions with sample code. **(8M)**

UNIT-II

3. a) Explain about navigator object with sample code. **(10M)**

   b) Explain about Text flow and box model with sample code. **(10M)**

(Or)

4. Explain the following with sample code for each

   (I)ONFOCUS (II) ONBLUR (III) ONMUSEOVER

   (IV) ONERRORS **(4*5=20M)**

UNIT-III

5. a) Write a Script that blurs images and slowly unblurs them when they are finished loading into the browser. **(10M)**

   b) Explain the process Sorting data in a table and Data binding Elements. **(10M)**

(Or)

6. a) Explain various Operations in VB Script.

   b) Explain String manipulations in VB Script with sample code.

UNIT-IV

7. Explain the Overview and installation of Apache Web Server. (20M)

(Or)

8. a) Explain about Session tracking in ASP (10M)

b) Explain about How Active Server page works. (10M)

UNIT-V

9. a)Write about XML Parser. (10M)

b) Explain about Extensible style languages with sample code. (10M)

(Or)

10.a) Explain about RIA (10M)

b) Explain about History of Ajax with example. (10M)