LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Affiliated to Osmania University)

M.C.A IV Semester Examination, June - 2018

Subject: Web Technologies **Exam Time: 3 hrs**

Sub Code: MCA 17408 **Max Marks: 100 M**

Answer any one from each unit: **(5*20=100 M)**

UNIT-I

1. a) What is an Event Handling? Explain with an example using ONERROR event. **(10M)**
   b) Program to demonstrate collection all and children in dhtml. **(10M)**

(Or)

2. a) Explain about External style sheets and write about font, box properties and values. **(10M)**
   b) Explain events with example i) on click ii) on load iii) on submit **(10M)**

UNIT-II

3. a) What is DTD? Explain in detail about XML DTD. **(10M)**
   b) Explain about AJAX with an example. **(10M)**

(Or)

4. a) Write about structuring Data & XHTML **(10M)**
   b) Explain about XSL with an example. **(10M)**

UNIT-III

5. a) Explain in detail about Operators and its precedence supported in PHP. **(10M)**
   b) Explain about String Functions with an example in PHP. **(10M)**

(Or)

6. a) Explain about constants and Data types in PHP. **(10M)**
   b) What is an array? Explain how to create, split and merge arrays in PHP. **(10M)**

UNIT-IV

7. a) Explain the procedure for setting up web pages to communicate with PHP. **(10M)**
   b) Explain about client side data validation with an example. **(10M)**

(Or)

8. a) Explain the file handling concept in PHP. **(10M)**
   b) Explain the concept of working FTP download, delete and upload in PHP **(10M)**

UNIT-V

9. a) Explain how to create Abstract Classes and interfaces in PHP. **(10M)**
   b) Explain about overriding and overloading in PHP. **(10M)**

(Or)

10. a) Explain the concept of object oriented program in PHP. **(10M)**
    b) Write a note on creating static methods and static Members in PHP. **(10M)**

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M.C.A IV Semester Final Examinations, June - 2018

Subject: Data Warehousing & Data Mining — **Exam Time:** 3 hrs

Sub Code: MCA 16405 — **Max Marks:** 100 M

Answer any one from each unit: (5* 20 = 100 M)

UNIT –I

1. a) Explain KDD, OLAP.
   b) Explain different Data Models.

(Or)

2. a) Explain optimal FIM algorithm.
   b) Explain incremental mining and sequential rules related to data mining.

UNIT – II

3. a) Explain about classification and its applications.
   b) What is clustering? Explain Partitioning methods.

(Or)

4. a) Explain density based methods and grid based methods.
   b) Explain Optimal classification algorithms and their objectives.

UNIT – III

5. a) What is data mining? Explain different issues related to data mining.
   b) Explain information flow mechanism related to data warehouse.

(Or)

6. a) What is operational system? Explain data flow from data warehouse to operational system.
   b) How the data warehouse helps in providing strategic information.

UNIT – IV

7. a) What is a fact table? Explain MOLAP process.
   b) Explain data warehouse and data model.

(Or)

8. a) What is dimension model? Explain star schema structure.
   b) Explain the strength of DM and explain aggregate tables.

UNIT – V

9. a) Explain the mechanism used to improve the performance in data warehouse.
   b) What is ETL? Explain in detail the elements of ETL.

(Or)

10. a) How to admin and improve the performance in data warehouse.
    b) Explain tools and products of data design.

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A IV Semester Final Examinations, June - 2018

Subject: Distributed Systems **Exam Time: 3 hrs**

Sub Code: MCA11402 **Max Marks: 100 M**

Answer any one from each unit: **(5* 20 = 100 M)**

UNIT –I

1. a) Define Distributed Systems and explain the Goals of Distributed Systems.
   b) Explain different Client Server Architectures.

(Or)

2. a) Explain about usage of Threads in Distributed Systems.
   b) Explain about different Software Agents in Distributed Systems.

UNIT – II

3. a) Explain about X.500 namespace and its implementation
   b) Explain any two mechanisms of Locating Mobile entities.

(Or)

4. a) Explain about Logical clocks for synchronization.
   b) Explain about Two phase locking protocol.

UNIT – III

5. a) Explain any two data-centric consistency models.
   b) Explain any two consistency protocols.

(Or)

6. a) Write about two phase commit protocol in distributed processing.
   b) Explain about Recovery in Fault Tolerance

UNIT – IV

7. a) Explain the CORBA object model.
   b) Explain about communication in D-COM

(Or)

8. Explain Sun Network File System.

UNIT – V

9. a) Define Distributed Memory and explain any two algorithms for implementing Distributed Shared Memory.
   b) Explain Write-Invalidate and write update coherence protocol.

(Or)

10. a) List and explain Components of Load Distributing Algorithms
    b) Explain Sender Initiated Load distributing algorithm.

LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

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M.C.A IV Semester Final Examinations, June - 2018

Subject: Network Security **Exam Time: 3 hrs**

Sub Code: MCA 17406 **Max Marks: 100 M**

Answer any one from each unit: **(5* 20 = 100 M)**

UNIT –I

1. a) Explain about different Security Attacks.
   b) Explain any two Transposition Techniques.

(Or)

2. a) Explain DES algorithm.
   b) Explain different Steganography Techniques.

UNIT – II

3. a) Explain RSA Algorithm with an example.
   b) Explain different types of RSA Attacks.

(Or)

4. a) Explain MD5 Algorithm with a neat sketch.
   b) Differentiate between MD5 Algorithm and SHA 512.

UNIT – III

5. a) Explain about Message Authentication Requirements.
   b) Define a Hash Function and List out the requirements for a Hash Function.

(Or)

6. a) Write about Elgamal Digital Signature Scheme.
   b) Explain about Digital Signature Standard.

UNIT – IV

7. a) Explain Symmetric Key Distribution using Symmetric Encryption.
   b) Explain about X.509 Authentication Service.

(Or)

8. a) Explain about Kerberos version 4.
   b) Explain any two techniques of Public keys distribution.

UNIT – V

9. a) Write about PGP (Pretty Good Privacy).
   b) Explain SSL (Secure Socket Layer).

(Or)

10. Explain IP Security.

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M.C.A IV Semester Final Examination, June - 2018

Subject: Advanced Java — **Exam Time:** 3 hrs

Sub Code: MCA 17407 — **Max Marks:** 100 M

Answer any one from each unit: (5*20=100 M)

UNIT –I

1. a) Define Event. Explain any five event classes in detail. (10M)
   b) Write a program to demonstrate mouse event handlers. (10M)

(Or)

2. a) Explain JCheck Box with an example program. (10M)
   b) Explain (i) JCombo Box (ii) JRadio Button (10M)

UNIT-II

3. a) Explain lifecycle of a servlet with an example program. (10M)
   b) Explain various methods defined by Servlet Request and Servlet Response interfaces (10M)

(Or)

4. a) Explain (i) Java Bean (ii) Persistence (10M)
   b) Explain Bean Info interface with an example program. (10M)

UNIT-III

5. a) Explain JSP Scripting elements with an example program. (10M)
   b) Explain (i) JSP Architecture (ii) Error Handling in JSP (10M)

(Or)

6. a) Explain Implicit Object in JSP. (10M)
   b) Write short note on (i) JSP Page Directives (ii) JSP Actions (10M)

UNIT-IV

7. a) Explain Enterprise Bean Architecture. (10M)
   b) Explain the types of Enterprise Bean. (10M)

(Or)

8. a) Explain Remote and Local Interfaces in Enterprise Bean. (10M)
   b) Explain the lifecycle of Stateless Session Bean. (10M)

UNIT-V

9. a) What is MVC? Explain the application flow in MVC. (10M)
   b) Explain Struts 1.X vs Struts 2.X. (10M)

(OR)

10. a) Explain the architecture of Hibernate. (10M)
    b) Explain the reasons for using Hibernate. (10M)

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M.C.A IV Semester Supplementary Examination, January – 2019

Subject: Advanced Java **Exam Time: 3 hrs**

Sub Code: MCA 17407 **Max Marks: 100 M**

Answer any one from each unit: **(5*20 = 100 M)**

UNIT – I

1. a) Define Event. Explain event listener interfaces in detail. **(10M)**
   b) Explain (i) Adapter classes (ii) Grid Layout Manager **(10M)**

(OR)

2. a) Explain JText Field with an example program. **(10M)**
   b) Explain (i) JToggleButton (ii) JTable **(10M)**

UNIT-II

3. a) Write a servlet program to read servlet parameters. **(10M)**
   b) Explain various methods defined by HttpServletRequest and HttpServletResponse interfaces **(10M)**

(OR)

4. a) Explain (i) Bound Properties (ii) Bean Info Interface **(10M)**
   b) What is introspection? Explain simple properties of a bean with an example program. **(10M)**

UNIT-III

5. a) Explain JSP Directives in detail. **(10M)**
   b) Write a JSP program to demonstrate database connectivity. **(10M)**

(OR)

6. a) Explain Session tracking techniques in JSP. **(10M)**
   b) Write short note on (i) JSP (ii) JSP Custom Tags. **(10M)**

UNIT-IV

7. a) Explain the benefits of Enterprise Bean. **(10M)**
   b) Explain the lifecycle of Stateful Session Bean. **(10M)**

(OR)

8. a) Explain types of Session Beans. **(10M)**
   b) Explain Enterprise Bean Architecture. **(10M)**

UNIT-V

9. a) Explain Struts Architecture in detail. **(10M)**
   b) Explain Struts Actions in detail **(10M)**

(OR)

10. a) What is Hibernate? Explain the components of Hibernate. **(10M)**
    b) Explain the application development approach of Hibernate. **(10M)**

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M.C.A IV Semester Supplementary Examination, January – 2019

Subject: Distributed Systems **Exam Time: 3 hrs**

Sub Code: MCA 17402 **Max Marks: 100 M**

Answer any one from each unit: **(5 x 20 = 100 M)**

UNIT –I

1. a) Define Distributed Systems and differentiate between Distributed operating systems and Network operating systems. **(10 M)**
   b) Explain different Client Server Architectures. **(10 M)**

(Or)

2. a) Explain about usage of Threads in Distributed Systems. **(10 M)**
   b) Explain about different types of Code Migration. **(10 M)**

UNIT – II

3. a) Explain about X.500 namespace and its implementation **(10 M)**
   b) Explain about removing unreferenced entities. **(10 M)**

(Or)

4. a) Explain about Logical clocks for synchronization. **(10 M)**
   b) Explain about Election Algorithms **(10 M)**

UNIT – III

5. a) Explain any two client-centric consistency models. **(10 M)**
   b) Explain any two consistency protocols. **(10 M)**

(Or)

6. a) Write about two phase commit protocol in distributed processing. **(10 M)**
   b) Explain about Recovery in Fault Tolerance **(10 M)**

UNIT – IV

7. a) Explain the communication in CORBA. **(10 M)**
   b) Explain about object model in D-COM **(10 M)**

(Or)

8. Explain CODA File System. **(20M)**

UNIT – V

9. a) Define Distributed Memory and explain any two algorithms for implementing Distributed Shared Memory. **(10 M)**
   b) List and explain design issues in Distributed Shared Memory. **(10 M)**

(Or)

10. a) List and explain Components of Load Distributing Algorithms **(10 M)**
    b)Explain Receiver Initiated Load distributing algorithm. **(10 M)**

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