LOYOLA ACADEMY DEGREE & PG COLLEGE, OLD ALWAL

(An Autonomous and Re-Accredited with 'A' Grade by NAAC)

M.C.A IV Semester Examination, August - 2015

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

Sub. Code : MCA 14406 **Max. Marks : 100**

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

Unit-I

1 a) Define Distributed system? Explain goals of it's? (10M)

b) Discuss about Distributed Operating Systems (DOS)? (10M)

(Or)

2 a) Define code migration? Explain reasons and models of it's? (10M)

b) Explain the threads in Distributed Systems? (10M)

Unit-II

3 a) Define Name, Address, Identifiers? (10M)

b) Explain the approaches to locating mobile entities? (10M)

(Or)

4. a)Explain physical and logical clocks in Distributed Systems? (10M)

b) Explain about Election Algorithms? (10M)

Unit-III

5. a) Discuss about Consistency and Replication. (10M)

b) Discuss about Data-Centric Consistency model (10M)

(Or)

6 a) Explain different types of failures. (10M)

b) Explain Distributed Commit and Recovery. (10M)

Unit-IV

7 a) Give an overview of CORBA with neat diagram. (10M)

b) Explain services of CORBA. (10M)

(Or)

8 a) Describe the architecture of NFS. (10M)

b) Explain about CODA and its features. (10M)

Unit-V

9 a) Define DSM? Explain advantages and disadvantages of it's. (10M)

b) Explain the algorithms for implementing DSM (10M)

(Or)

10. a) Explain the issues in load Distributing . (10M)

b) Explain the sender and receiver initiated algorithm for load distribution. (10M)

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M.C.A IV Semester Examination, August - 2015

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

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

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

Unit-I

1 a) Explain InputBox and Prompt dialog box in Java Script. (10M)

b) Explain any 10 String functions in JavaScript with an example. (10M)

(Or)

2 a) Explain TABLE tag.Write a program displaying restaurant menu. (10M)

b) Give the arithmetic operations in Javascript (10M)

Unit-II

3 Explain the cascading style sheets. (20M)

(Or)

4. Explain ONCLICK event with an example. (20M)

Unit-III

5. Explain TDC binding to table. (20M)

(Or)

6 Explain variant subtypes in Vbscript.Write about Dim and ReDim. (20M)

Unit-IV

7 a) Explain Personal Web Server. (10M)

b) Explain Apache Web Server. (10M)

(Or)

8 a) Explain the file system objects in ASP. (20M)

Unit-V

9 Explain the XML DTD .Give example (20M)

(Or)

10. What are the server sides includes in PERL (20M)

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M.C.A IV Semester Examination, August - 2015

Subject : UNIX Programming | **Exam Time : 3 hrs**

Sub. Code : MCA 14403 | **Max. Marks : 100**

Unit –I

1) a) What is UNIX? Explain about various Unix commands. (8M)
   b) Define and explain regular expressions and grep family of commands. (12M)

(Or)

2) a) Write short notes on shell programming with an example. (10M)
   b) Explain about AWK programming with an example. (10M)

Unit –II

3) a) Explain about elementary socket system calls. (15M)
   b) Define and explain socket address. (5M)

(Or)

4) a) Explain about connection oriented client-server communication. (10M)
   b) Discuss about various socket signals. (10M)

Unit –III

5) a) Explain the origin and uses of Perl. (8M)
   b) Write short notes on arrays and hashes in Perl. (12M)

(Or)

6) a) Discuss about control statements of Perl with examples. (12M)
   b) What is sub-routine? and explain. (8M)

Unit –IV

7) a) Explain about syntactic characteristics of PHP. (10M)
   b) Write short notes on arrays in PHP. (10M)

(Or)

8) a) Explain about parameter passing mechanisms of PHP . (12M)
   b) Explain about pattern matching in PHP. (8M)

Unit –V

9) a) what is python ?explain the features of python. (8M)
   b) Explain about lists and tuples? (12M)

(Or)

10) a) Write short notes on errors and exceptions in python. (10M)
    b) Write and explain object oriented features of python with an example. (10M)

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Subject : Computer Networks — Exam Time : 3 hrs

Sub. Code : MCA 14402 — Max. Marks : 100

NOTE: Answer one question from each unit. All questions carry marks.

UNIT-1

1. a) Explain the components and categories of computers network? (10M)
   b) Explain protocol architecture. Explain OSI reference model with neat diagram? (10M)

(Or)

2. a) Explain in detail Transmission characteristics of Guided Transmission Media. (10M)
   b) Explain about Co-axial, Twisted pair and Fiber optics Transmission media. (10M)

UNIT-II

3. a) Explain about error detection, error correction and error control. (10M)
   b) Explain about Go-back-N ARQ. (10M)

(Or)

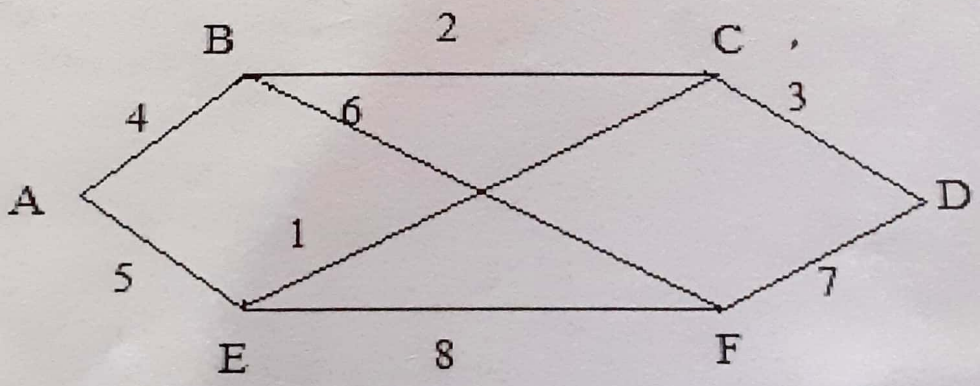
4. a) Explain about CSMA/CD. (10M)
   b) Explain about Slotted ALOHA. (10M)

UNIT-III

5. a) Explain about CIDR. (10M)
   b) Explain about IP Addressing. (10M)

(Or)

6. Explain Distance Vector Routing algorithm using the given data to generating table for 'C' for the rate 'C' from B (5,0,8,12,6,2) from D (16,12,6,0,9,10) from E (7,6,3,9,0,4). The measured delays to B, D and E are 6, 3, and 5 respectively. (20M)



(P.T.O)

UNIT-IV

7. a) Explain about LAN protocol architecture. (10M)
   b) Explain about Multiplexing (10M)

(Or)

8. a) Explain the service of Transport Layer. (10M)
   b) Draw and Explain Ethernet MAC Frame Format (10M)

UNIT-V

9. a) Discuss IEEE 802.11 Architecture and services. (10M)
   b) Define Digital Signature and Explain PEM (10M)

(Or)

10. a) What is Encryption and decryption ? (5M)
    b) Explain the following
    i) W3C ii) DNS iii) SMTP (15M)

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