

(4)

Ex./ML/06/2019

MASTER OF LIBRARY AND INFORMATION SCIENCE

EXAMINATION, 2019

(1st Semester)

Information and Communication Technology

Paper : ML - 06

Time : Two hours

Full Marks : 50

6. (a) Explain various HTML Form tags with examples. What is JavaScript ? How to insert JavaScript code in HTML code ? Give an example and point out the different elements. 5+1+4

7. What is Web ? List the technologies that can help in creating dynamic web page with suitable examples. Can we replace HTML with XML ? Give arguments. Why it is important to st the meta information in the web page ? 1+6+2+1

OR

8. What are the features of XML ? Write a XML code for catalogue of three books with imaginary author, title and ISBN in the library and display it through CSS and XSL code. 2+3+5

9. Write short notes on any two : 5x2=10
(a) XPath and XQuery
(b) XML Namespace and DOM
(c) SHTML
(d) Operating System

Answer *all* questions.

1. (a) Write a programme in C language to print the following pattern :

00000

0000

000

00

0

4

- (b) What are the advantages of Database Management Systems over File Processing Systems. Discuss the 3-tier architecture of a database 3+3

Or

2. (a) What is kernel and shell in UNIX based operating systems ?

— X —

(Turn over)

(2)

- (b) List atleast 15 concepts related to the domain 'Food'. Construct an Entity Relationship model out of the concepts you have listed.
- (c) Discuss about any one bibliographical database of your choice. 3
3. (a) Share your experiences encountered while using different features, user interface, applications etc. on Windows and UNIX operating systems. 3
- (b) Write necessary MySQL statements to do the following : 5
- Create a table containing data about students of a particular department of a university. The table should have data about the first name of the students in addition to other data.
- Insert data into at least 5 rows into the table.
- Arrange the table in descending order of the column containing data about the first name of the students.
- Update the first name from any one of the entries
- Delete the table and the data.
- (c) "C has been already superseded by languages like C++, C# and Java, so why bother to learn C today". Comment.

OR

(3)

4. (a) Why does it become imperative to switch to/login as the root user in UNIX? What is the required command to switch to the root user in UNIX? 1+1
- (b) What is the difference between a full backup and an incremental backup? What is CERT-In? 3+2
- (c) Discuss decision control structure which are used in C with one suitable example. 3
5. (a) The following is an example of use of ternary operators in C. 1+1
- $y = (x > 10 ? 0 : 1)$
- i) What value will be stored in the variable y if the value of the variable x is 10?
- ii) Make necessary changes so that 1 is stored in the variable y, for any value of x.
- (b) Explain the structure of a UNIX command. Distinguish between ed and cd.. command in UNIX? 2+2
- (c) Describe the steps in the process of evaluating web information resources. 4

OR

(Turn over)