

Total No. of printed pages = 5

4 (Sem-4) WD (E-Com)

2018

**WEB DESIGNING**

**(E - Commerce)**

Paper : 405

**(Major)**

Full Marks – 80

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Choose the correct option : 1×10=10
- (a) The term —— is used to refer to a row.
- |               |               |
|---------------|---------------|
| (i) Attribute | (ii) Tuple    |
| (iii) Field   | (iv) Instance |
- (b) The union of primary keys of the related entity sets becomes a —— of the relation.
- |                   |                    |
|-------------------|--------------------|
| (i) Super key     | (ii) Candidate key |
| (iii) Foreign key | (iv) Primary key   |

[Turn over



(c) Which one is the lowest level database model ?

- (i) Physical level
- (ii) Logical level
- (iii) External level
- (iv) None of the above

(d) What should be the first tag in any HTML document ?

- (i) <head>                      (ii) <title>
- (iii) <html>                    (iv) <document>

(e) HTML Web pages can be read and rendered by \_\_\_\_.

- (i) Compiler                      (ii) Server
- (iii) Web Browser              (iv) Interpreter

(f) Which of the following is not a browser ?

- (i) Microsoft Bing
- (ii) Netscape Navigator
- (iii) Mozilla Firefox
- (iv) Opera

(g) WWW is based on which model ?

- (i) Local-server
- (ii) Client-server
- (iii) 3-tier
- (iv) None of the above

(h) \_\_\_\_\_ JavaScript is also called client-side JavaScript.

- (i) Microsoft                      (ii) Navigator
- (iii) Live Wire                    (iv) Native

(i) What is the correct syntax of the declaration which defines the XML version ?

- (i) < xml version = "A. 0"/ >
- (ii) < ? xml version = "A.0" ? >
- (iii) < ? xml version = "A.0"/ >
- (iv) None of the above

(j) Which of the following is not a core role in Web Service architecture ?

- (i) Service Provider              (ii) Service Requestor
- (iii) Service Registry            (iv) Service Locator



2. Write short notes on :  $2 \times 5 = 10$

- (a) ER-diagram
- (b) Relational algebra
- (c) XML Namespaces
- (d) ASP.NET
- (e) J2EE

3. Answer any five questions :  $4 \times 5 = 20$

- (a) What are the various data models available for database systems ?
- (b) What is normalization ? Differentiate between first normal form and second normal form.
- (c) Explain the concept of Cartesian Product between two tables with the help of appropriate example.
- (d) What are the advantages of using XHTML rather than HTML ?
- (e) Define XML. What are the benefits of XML ?
- (f) Explain the features of JavaScript. Write a JavaScript code to display addition of two numbers.

4. Answer any four questions :  $10 \times 4 = 40$

- (a) Differentiate between Candidate Key and Primary Key in context of RDBMS. Give a suitable example of a table with sample data and illustrate Primary Key and Candidate Key in it.  
 $2+2+3+3=10$

- (b) What is SQL ? What are different types of SQL commands ? Give examples.  $3+7=10$

- (c) What is VBScript ? Write a VBScript code to display prime numbers from 1 to 100.  
 $3+7=10$

- (d) What is Dot Net Framework ? Explain the different components of .Net framework.  
 $4+6=10$

- (e) What is ASP ? What are the advantages of using ASP ?  
 $4+6=10$

- (f) What is Web Service ? What are different types of Web Services ?  
 $4+6=10$