

Total number of printed pages-2

44(6) WBTC 6.2

**2015**

**WEB TECHNOLOGY**

Paper : 6.2

Full Marks : 80

Time : Three hours

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

*Answer Q. No. 1 and **any six** from the rest.*

1. Write short notes on **any four** of the following : 4×5=20

- (a) World wide web
- (b) e-commerce
- (c) Firewall
- (d) URL
- (e) FTP
- (f) HTML

*Contd.*

2. Discuss about the history and evolution of Internet. 10
3. How Frames, Forms, images, and links can be created using scripting language? 10
4. Explain the procedure for creating a website using database connectivity. 10
5. Explain in detail about the procedure for uploading a website into the internet. 10
6. Discuss about the practical graphics, merging, hyperlinks and multimedia controls in creating a web page. 10
7. Discuss the various features of the Mark-up languages—HTML, DHTML & XML. 10
8. Explain in detail about the web object models—COM, DCOM, & CORBA. 10
9. Write a brief note on web security. 10
10. What is web server Architecture? Explain JDBC & ODBC. 4+3+3=10
11. Write explanatory notes on Active X controls and Plug-ins. 5+5=10

(b) State the role played by a DBA in tuning a database. 3

5. (a) What are the components of a PL/SQL block? 2

(b) What are %TYPE and %ROWTYPE? What are the advantages of using these over datatypes? 2

(c) What are the cursor attributes used in PL/SQL? 2

(d) Write a program to insert rows in an employee table using JDBC (only connectivity and execution of sql statement need to mention). The structure of the employee table is given below — 5

emp\_id    varchar (10)  
name      varchar (20)  
dept      varchar (10).

---

Total number of printed pages-4

44 (6) DDAP-6.2

**2015**

**DATABASE DESIGN AND  
PROGRAMMING**

Paper : 6.2.2

Full Marks : 40

Time : Two hours

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

1. Choose the correct alternatives of the following : **(any five)** 1×5=5

(a) Which of the following keyword is used in SQL to eliminate duplicate rows from the query result?

(i) NO DUPLICATE

(ii) DISTINCT

(iii) UNIQUE

(iv) None of these

(b) Relational algebra is a \_\_\_\_\_ language.

- (i) non-procedural
- (ii) procedural
- (iii) programming
- (iv) none of these

(c) Generalization is a \_\_\_\_\_ approach.

- (i) bottom up
- (ii) top down
- (iii) both (i) & (ii)
- (iv) none of these

(d) COMMIT is a \_\_\_\_\_ statement.

- (i) TCL
- (ii) DCL
- (iii) DML
- (iv) DQL

(e) Which of the following is not an aggregate function?

- (i) SUM
- (ii) MIN
- (iii) MAX
- (iv) DISTINCT

(f) The full form of CODASYL is

- (i) Correlated Data System Language
- (ii) Conference on Data System Language
- (iii) Cohension of Data Systems Language
- (iv) None of these

(g) Functional dependency is the dependency between

- (i) Tuples
- (ii) Attributes
- (iii) Values
- (iv) None of these

2. Discuss various concurrency control techniques. 8

3. (a) What is the basic goal of Database security? Explain. 4

(b) What do you mean by Authorization and Authentication? 4

4. (a) Explain Centralized and Client server database architecture. 5

**2015**

**SYSTEM ADMINISTRATION  
USING LINUX**

Paper : 6.3

Full Marks : 40

Time : Two hours

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

1. (a) Explain the basic features of Linux operation system. 4
- (b) Explain the process of installing linux. Specify the number of partition(s) required to install it. Also mention their size and objectives. 4
2. (a) Explain *any eight* basic linux command with their syntax and example. 4
- (b) Write a shell script to display the following series 4  
0 1 1 2 3 5 8 13 ..... (50 terms)

Contd.

3. (a) Write a shell script to find the sum of a 4 digit number and display it. 4
- (b) Explain how backup and restore procedure is performed in linux. 4
4. (a) List and explain *any two* functions performed by 'root' account. 4
- (b) What is file system? Explain the architecture of linux file system. 4
5. Write short notes on : **(any two)** 8
- (a) Network security issues
- (b) Network address
- (c) Customizing the system log information
- (d) duties of system administrator
-