

**CSC & CSM : Database and  
Web Design**

**T028**

**Wednesday, 06/11/2013  
8:30 – 11:30AM**

**WORKFORCE DEVELOPMENT AUTHORITY**



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**ADVANCED LEVEL NATIONAL EXAMINATION, 2013,  
TECHNICAL AND PROFESSIONAL TRADES**

**EXAM TITLE: Database & Web Design**

**OPTIONS:**

- **Computer Science (CSC)**
- **Computer Science and Management (CSM)**

**DURATION: 3hours**

**INSTRUCTIONS:**

The paper has **three** Sections :

**Section I:** Eighteen **(18)** questions, **compulsory.** **55marks**

**Section II:** Five **(5)** questions, **Choose any three (3)** **30marks**

**Section III:** Three **(3)** questions, **Choose any one (1)** **15marks**

**Section I : Answer all the 18 questions 55marks**

01. What is the importance of a database user account? **3marks**
02. What is a trigger? **3marks**
03. What is a stored procedure in SQL statements? **3marks**
04. What is a synonym in RDBMS? **3marks**
05. What is a sequence in RDBMS? **3marks**
06. Which of the following is a disadvantage of a View in RDBMS? **2marks**
07. What is a constraint in RDBMS? **3marks**
08. Which of the following is not a feature of SQL? **2marks**
09. What is a data file in RDB? **3marks**
10. What is a log file in RDB? **3marks**
11. Differentiate RDB from RDBMS. **4marks**
12. What is WWW? **3marks**
13. What is a web page? **3marks**
14. What is a website? **3marks**
15. What is a browser? **3marks**
16. What is a web server? **4marks**
17. What is a HTTP? **4marks**
18. What is URL? **3marks**

**Section II: Choose and Answer only THREE questions 30marks**

19. Explain the following functions of RDBMS: **10marks**
  - Physical data structure management
  - Logical data structure management
  - Data integrity management
  - Data security management
  - Data manipulation management
20. State and explain the SQL processing flow. **10marks**
21. What do the following words stand for: **10marks**
  - a) DDL
  - b) DML
  - c) DCL
  - d) SQL
  - e) RDBMS

22. When do we use the following HTML tags? **10marks**

- a) `<html>-----</html>`
- b) `<title>-----</title>`
- c) `<body>-----</body>`
- d) `<b>-----</b>`
- e) `<u>----</u>`

23. Differentiate CSS from HTML. **10marks**

**Section III: Choose and Answer any ONE question 15marks**

24. a) What are the major functions provided by DDL? **7marks**

b) What are the major functions provided by DML? **8marks**

25. a) Write a SQL command to retrieve all rows and columns from EMP Table. **5marks**

**Retrieve all rows and columns from a table**

EMP TABLE

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-Dec-80	800		20
7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	300	30
7521	WARD	SALESMAN	7698	22-Feb-81	1250	500	30
7566	JONES	MANAGER	7839	2-Apr-81	2975		20
7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30
7698	BLAKE	MANAGER	7839	1-May-81	2850		30
7782	CLARK	MANAGER	7839	9-Jun-81	2450		10

b) Write a SQL command to retrieve all staffs with DEPTNO = 20. **10marks**

**Retrieve necessary rows from a table (selection)**

EMP TABLE

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-Dec-80	800		20
7499	ALLEN	SALESMAN	7698	20-Feb-81	1600	300	30
7521	WARD	SALESMAN	7698	22-Feb-81	1250	500	30
7566	JONES	MANAGER	7839	2-Apr-81	2975		20
7654	MARTIN	SALESMAN	7698	28-Sep-81	1250	1400	30
7698	BLAKE	MANAGER	7839	1-May-81	2850		30
7782	CLARK	MANAGER	7839	9-Jun-81	2450		10

26. Write an HTML command to create the below webpage.

15marks

