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Roll No.

X-5028

**P. G. Diploma in Computer Application
(First Semester) EXAMINATION, Dec., 2013
DBMS (SQL/ORACLE)
(PGDCA-103)**

Time : Three Hours]

[Maximum Marks : 100

Note : Attempt any five questions. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) What are the functions of DBMS ?
(b) Explain the Data Dictionary.
(c) Explain multivalued attribute and key attribute.
(d) What are the tasks of database administrator ?
(e) What do you mean by strong entity set ?
2. Explain specialization and generalization in detail.
3. What do you mean by normalization ? Define 4NF and 5NF.
4. Explain functional dependency with the help an explain.
5. What is projection and select operation ?
6. Explain the architecture of DBMS.
7. Write short notes on any two of the following :
 - (i) E-R diagram
 - (ii) Decomposition
 - (iii) Views
 - (iv) Join operation

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Roll No. 43

X-5026

**P. G. Diploma in Computer Application
(First Semester) EXAMINATION, Dec., 2013**

INTRODUCTION TO SOFTWARE ORGANIZATION

(PGDCA-101)

Time : Three Hours]

[Maximum Marks :100

Note : Attempt any two questions from each Unit. All questions carry equal marks.

Unit—I

1. (a) What are the characteristics of computer system ? Explain generations of computers.
- (b) What is processor ? Explain the architecture of Pentium IV with diagram.
- (c) Compare microcomputers, minicomputers and main frames in terms of size and cost.

Unit—II

2. (a) What do you mean by storage and why its need ? Explain the types of storage device.
- (b) What is CPU ? What are the subsystems in it ?
- (c) What is SIMM ? Make differentiate SIMM with DIMM.

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Unit—III

3. (a) Define the terms Compiler, Interpreter, Assembler, Loader, and Linker.
- (b) Differentiate data, information and knowledge. Explain the types of programming language.
- (c) What is Booting Process ? Explain what are the various steps of it.

Unit—IV

4. (a) What do you mean by protocols ? Explain communication process and its type.
- (b) List out application of internet. Also explain the anatomy of Internet.
- (c) Make differentiate between Bridges, Routers, HUB and Gateways according to their working and uses.

Unit—V

5. (a) What do you mean by Open Source software ? Draw and explain the file system of linux OS.
- (b) What is Multiuser operating system ? Explain what are the characteristics of it.
- (c) Explain the following Linux command with syntax and example :
 - (i) find
 - (ii) is
 - (iii) grep
 - (iv) mv
 - (v) cat

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