*Form No. Ex- 8*

Particulars about the candidate and the subject are checked thoroughly and corrected where necessary.

Invigilator

*Sl. No.....* 213

**CENTRE ROLL:.....**

**Signature of Officer-in-Charge**

# KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

## BCA 3rd Semester Examination 2014

## Course 9

## Database Management System

## (Theory)

**Enrolment Number** | | | | | | | | | | | | **Year** | |

**Medium of Answer :** |

| Question No. | Marks |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Total= | |

## INSTRUCTIONS TO CANDIDATES

1. This booklet contains...16..... Pages numbering..15.....
2. An Examinee is allowed to bring only Admission Card and Identity Card to the Examination Hall. Any Examinee found in possession of loose papers, books etc. is liable to be Expelled.
3. Enrolment No. and Medium of answer must be written legibly at the specified places. Examinee's name and any other identifying mark which reveals examinees identity shall not be written anywhere in the script.
4. For Making calculations, only the last page provided for rough work shall be used.
5. No pages of the script be torn out .
6. Calculators will not be allowed for making calculations in the examination hall. ***MOBILE PHONES are strictly prohibited in the examination Centre.***
7. No candidate will be allowed to leave or go out of the hall during the First hour of the Examination.
8. A candidate having completed his/her answer, the script must be handed over, to an invigilator before leaving the hall.
9. Contravention of any of the instructions mentioned above shall render a candidate liable for disciplinary action as per regulations of the University.

Examiner's Signature_____

Scrutiniser's Signature_____

**Head Examiner's Signature:**_____

**BCA 3rd Semester Examination 2014**
**Course : 9**
**Database Management System**
**(Theory)**

Time : 2 Hrs. Full Marks : 50

1. Answer the following questions : 1×4 = 4
   (a) Define 'record' and 'file'.
   (b) Define a 'database'.
   (c) What is the need of data model?
   (d) What is 'degree' and 'cordinality' of a 'relation'?

2. Answer the following questions : $2 \times 5 = 10$

(a) Write the structure of SELECT statement.

(b) What is database security?

(c) Define the term DBMS. Give two examples of DBMS.

(d) Write advantages of hierarchical data model.

(e) What is the difference between candidate key and primary key.

3. Answer any two questions from the following : 4×2 = 8

(a) Write the characteristics of SQL.

(b) Write main four features of E–R model.

(c) Define functional dependency. Why it is required?

4. Answer any one question from the following : 8×1 = 8

(a) Classify DBMS according to the number of users, the database site locations and the type and extent of use. Write advantages of each type.

(b) What is database backups? Explain different types of database failure.

5. Answer any one question from the following : $10 \times 1 = 10$

(a) Define relational model. Write properties of RDBMS. What are the advantages of relational model.

(b) What is meant by normalization? Why we normalize the database? Describe the data nomalization process.