*Form No. Ex- 8*

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

303

*Sl. No.....*633

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

**Invigilator**

**Seal & Signature of Officer-in-Charge**

# KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

## BCA Examination 2013 (4th Semester)

**Subject :** SYSTEM ANALYSIS & DESIGN

**Enrolment Number.** | | | | | | | | | | |

## INSTRUCTIONS TO CANDIDATES

1. 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.
2. Enrolment No. 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.
3. For Making calculations, only the last page provided for rough work shall be used.
4. No pages of the script be torn out .
5. ***MOBILE PHONES are strictly prohibited in the examination Centre.***
6. No candidate will be allowed to leave or go out of the hall during the First hour of the Examination.
7. A candidate having completed his/her answer, the script must be handed over, to an invigilator before leaving the hall.
8. Contravention of any of the instructions mentioned above shall render a candidate liable for disciplinary action as per regulations of the University.

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Scrutiniser's Signature_____

Head Examiner's Signature:_____

# KKHSOU BCA 4TH SEMESTER Examination 2013

Subject : BCA

Paper - 12 : System Analysis & Design

Time : 3 Hrs. Full Marks : 80

1. Answer the following questions 1×8 = 8

(a) 'An open system permits interaction with the environment' - state true of false.

(b) Write the full form of OLTP.

(c) The detailed study of the Present System is referred to as -

(i) System planning (ii) Feasibility

(iii) System analysis (iv) None of these

(d) By using which information gathering tool a mutually acceptable solution to a problem can be found?

(e) Who prepare the cost-benefit analysis?

(f) What does a rectangle mean in a system flowchart?

(g) 'System design involves first the ..... design'. Fill in the blanks.

(h) Which is the first test in a system development process?

2. Answer the following questions $2 \times 8 = 16$

(a) Define the term 'system'.
(b) Write the name of any four information system.
(c) What do you mean by 'automation'?
(d) What is a decision tree?
(e) In a DFD what do you mean by a 'square' and 'open rectangle' symbol?
(f) Define the term 'module'.
(g) What do you mean by system security?
(h) Mention the name of any four system security threats.

3. Answer any five questions from the following $4 \times 5 = 20$

(a) Explain the basic characteristics of a system.

(b) What do you mean by evaluation of a system? Why maintenance of a system is necessary? Explain.

(c) What are the various types of feasibility study? Write down the importance of feasibility study.

(d) Differentiate between top-down design and bottom-up design.

(e) Explain the following forms :
(i) input design and
(ii) output design

(f) 'System testing is vital to the sucess of a system'. What is the need of system testing? Explain.

4. Answer any two questions from the following $8 \times 2 = 16$

(a) 'System analyst plays a vital role in the system development process'. Explain the role played by a system analyst in an organization. Also mention the various skills required for a system analyst.

(b) Draw a DFD for the following problem :
Consider a program which registers students for different courses. The students fill a form and submit it. This is sent to the departments for confirmation. Once it is confirmed, the form and the fees are sent to the accounts section.

(c) Elaborate the concept 'module coupling' and 'module cohesion'.

5. Answer any two questions from the following $10 \times 2 = 20$

(a) Explain the various phases of 'System Development Life Cycle' (SDLC).

(b) Discuss any three information gathering tools. What is cost benefit-analysis?

(c) Discuss the various types of testing involved in the development process of a system. Define quality assurance.