

Form No. Ex- 8

Sl. No..... 208

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



CENTRE CODE :.....

Invigilator

Signature of Officer-in-Charge

KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY

BCA 4th Sem. Examination, 2014

System Analysis and Design

Paper - 12

Time : 3 Hrs. Full Marks : 80

Enrolment Number

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Medium of Answer :

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Que. No.	Marks
1.	
2.	
3. a	
3. b	
3. c	
3. d	
3. e	
3. f	
3. g	
4. a	
4. b	
4. c	
5. a	
5. b	
5. c	
Total	

INSTRUCTIONS TO CANDIDATES

303[BCA(S4) 12]

- This booklet contains.....24.. Pages numbering....23...Please verify number of pages in the booklet before answering.
- 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.
- 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.
- For Making calculations, only the last page provided for rough work shall be used.
- No pages of the script be torn out .
- Calculators will not be allowed for making calculations in the examination hall. **MOBILE PHONES are strictly prohibited in the examination Centre.**
- No candidate will be allowed to leave or go out of the hall during the First hour of the Examination.
- A candidate having completed his/her answer, the script must be handed over, to an invigilator before leaving the hall.
- 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 : _____

Examiner's Full Name : _____

Scrutiniser's Signature : _____

Scrutiniser's Full Name : _____

Head Examiner's Signature : _____

2. Answer any eight from the following questions

2×8 = 16

- (a) Identify the elements of a system in brief.
- (b) 'MIS is a specific type of Information System'. Explain in brief.
- (c) Differentiate between the system design and detailed design activities of design.
- (d) Why determination of requirements is considered a very important section in the analysis phase of SDLC?
- (e) Mention the steps involved in the Feasibility analysis phase of SDLC.
- (f) What is a decision tree?
- (g) Write a few lines on the top down approach.
- (h) Mention the purpose of data validation program.
- (i) System conversion is a step in system implementation. What is system conversion?
- (j) Define cryptography.

3. Answer any five from the following questions

4×5 = 20

- (a) Explain in brief the different types of feasibility study.
- (b) Differentiate between
 - (i) Fixed cost and variable cost
 - (ii) Direct cost and indirect cost
- (c) What are the main models of online data input.
- (d) Give a precise view of the different output controls used to maintain output integrity and security.
- (e) Identify and write the difference between Unit, Integration and System testing.
- (f) (i) What is the objective or purpose of software maintenance?
(i) Differentiate between Adaptive and Preventive maintenance.
- (g) (i) Define the term 'System security threats'.
(ii) What are the responsibilities of the 'Disaster Recovery Team'?

4. Answer any two from the following questions

8×2 = 18

- (a) (i) Explain the concepts of Open, Closed, Deterministic and Probabilistic systems.
- (ii) Differentiate between batch processing and real-time processing.
- (b) (i) Define the term module in relation to software systems.
- (ii) Differentiate between loose and tight coupling.
- (iii) What is structured design?
- (c) (i) Explain the Parallel System and Phase-in-Method of system conversion.
- (ii) Discuss in brief about the various roles of a System Analyst.

5. Answer any two from the following questions

10×2 = 20

- (a) Explain the various phases of SDLC with a brief outline of each phase.
- (b) Discuss each of the information gathering tools used for collecting data to develop a system.
- (c) Illustrate the various structured tools introduced for system analysis. Give a clear concept of each of the tool highlighting the definition and how it is used.