[16–GAHG–D4S]

Form No. Ex–8

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

Sl. No. 153

EXAM CENTRE CODE : .....

Invigilator

Signature of Officer in-Charge

BCA 4th Semester Examination, 2016

[System Analysis and Design] {BCA (S4) 12}

Time : 3 Hours

Full Marks : 80

Enrolment Number :

Medium of Answer :

INSTRUCTIONS TO CANDIDATES

1. This booklet contains 24 pages numbering 23. Please verify number of pages in the booklet before answering.
2. No pages of the script be torn out.
3. 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, mobile phones, etc., is liable to be expelled.
4. Enrolment Number and Medium of Answer must be written legibly at the specified places. Examinee's name and any other identifying mark which reveals examinee's identity shall not be written anywhere in the script.
5. For making calculations, etc., only the last page may be used.
6. Calculators will not be allowed for making calculations in the Examination Hall.
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.

Mandatory

Examiner's Signature : _____

Examiner's Full Name : _____

Scrutiniser's Signature : _____

Scrutiniser's Full Name : _____

Question Nos.	Marks
1.	
2.	
3.(a)	
3.(b)	
3.(c)	
3.(d)	
3.(e)	
3.(f)	
4.(a)	
4.(b)	
4.(c)	
5.(a)	
5.(b)	
5.(c)	
Total	

Head Examiner's Signature : _____

303 (SAD)

1. Answer the following questions : 1×8=8

(a) What is documentation?

(b) What are questionnaires?

(c) What are structured charts?

(d) What is a decision support system (DSS)?

(e) Define audit trail.

(f) Define feasibility study.

(g) Why is maintenance of a system necessary?

(h) What are site visits?

2. Answer the following questions : 2×8=16

(a) Define system. Mention two characteristics of system.

(b) What is initial investigation?

(c) What is cost-benefit analysis?

(d) What is the purpose of a data validation program?

(e) What is system conversion?

(f) Differentiate between an action form and a report form.

(g) What is top-down approach in system design? Mention two advantages of this design.

(h) What is software quality assurance?

3. Answer any *five* of the following questions : 4×5=20

(a) What are interviews and how are they conducted?

(b) How are decision trees different from decision tables?

(c) Mention five input design guidelines.

(d) Differentiate between unit testing and integration testing.

(e) Define system audit. What are the different types of auditors?

(f) Explain in brief qualitative risk analysis.

4. Answer any *two* of the following questions : 8×2=16

(a) What is information? Describe the three categories of information in brief.

(b) Discuss in brief the skills required by a system analyst.

(c) What is SDLC? Discuss in brief the different phases of SDLC.

5. Answer any *two* of the following questions : 10×2=20

(a) Describe the steps in feasibility analysis.

(b) Draw a DFD for a payroll system up to level 2.

(c) Write short notes on any *two* of the following :

(i) Module Cohesion

(ii) Module Coupling

(iii) Structured Design