



Tribhuvan University

Faculty of Humanities and Social Sciences

OFFICE OF THE DEAN

2019

BCA Third Semester

Subject: System Analysis and Design

Time: 3hr

Full Marks:60

Pass Marks: 24

Group B

Attempt any SIX questions. [6x5 = 30]

2. Elaborate on the steps in feasibility of analysis.
3. Explain what is system and what are its characteristics of a system in details ?
4. Why is it difficult to determine user requirement? Illustrate the key strategies for eliciting information about user requirement.
5. Distinguish between system and user documentation and determine which types of documentation are necessary for a given information system.
6. Explain and contrast four types of maintenance.
7. Differentiate between questionnaire and interview Survey
8. What is difference between a 2NF and 3NF

Group C

Attempt any TWO questions. [2x10 = 20]

9. List and Describe the skills and activities of a project manager during project initiation, project execution and project close down
10. Draw context diagram, Data flow Diagram up to level-2 of food ordering system of Bakery Cafe Jawlakhel- Lalitpur
11. How can you transform E-R diagram into relation? Explain with suitable examples. A Bank has the following policy on deposits of Rs 50,000/- and above for five years above, the interest rate is 15%. On the same deposit for period user less than 5 years it is 12%. On the deposit below



Rs 50,000/- the interest rate is 10% regardless of period and deposit. Write the above process using:
a. Decision Table b. Decision Tree

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2020

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Group B

Attempt any Six question

2. What is system? What are the phases of SDLC? Explain Briefly
3. What do you mean by planning? Write the process of planning for Information System Development Project?
4. Define Process Modeling. Explain DFD with Example
5. List and explain the skills and responsibilities of project manager.
6. Explain the guidelines to design in an interface and dialogue box e-commerce system.
7. Differentiate between system and user documentation with their applications
8. Define software testing. Explain software quality assurance activities

Group C

Attempt any Two question

9. What are the major differences between Agile methodologies and Waterfall Model? Why should you use agile methodologies? Explain.



10. How can you transform ER Diagram into relation? Explain with your own suitable example

11. Why is Project Management important? Describe the concept of integrated CASE Tools with its applications.