



Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2024

Bachelor in Computer Applications
Course Title: System Analysis and Design
Code No: CACS 203
Semester: III

Full Marks: 60
Pass Marks: 24
Time: 3 hours

Candidates are required to answer the questions in their own words as far as possible.

Group B

- Attempt any SIX questions.** **[6×5 = 30]**
2. Define system. Explain components of system including its characteristics. **[1+2+2]**
 3. Define case tool. Explain different types of case tool that can be used in different phases of SDLC. **[1+4]**
 4. Define information system planning. How is top-down planning approach different from bottom-up planning approach? Explain. **[1+4]**
 5. Define JAD? List out different contemporary requirements determining techniques and explain them in comprehensive way. **[1+4]**
 6. Define data modeling. Explain logical data model in detail. **[1+4]**
 7. What are the various types of menu design which can be adopted to meet the system complexity and usability?
 8. Why do software project often fails? Explain different types of software testing? **[1+4]**

Group C

- Attempt any TWO questions.** **[2×10 = 20]**
9. Explain phases of SDLC, also discuss the role of Project Manager in software project development. **[7+3]**
 10. What is process modeling? Why do we need DFD? Draw up to top level DFD for Online hotel room booking system. **[1+2+7]**
 11. List out different activities that are associated with implementation phase. Explain each of them in detail. What are the different methods of training and supporting users? Explain. **[6+4]**