Tribhuvan University
Institute of Science and Technology
2081
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Bachelor Level / Third Year /Six Semester/Science   Full Marks: 60
Computer Science and Information Technology (CSC 364)   Pass Marks: 24
(Software Engineering)   Time: 3 hours.
(NEW COURSE)

Candidates are required to give their answers in their own words as for as practicable.
The figures in the margin indicate full marks.

Group A
Attempt any TWO questions.   (2×10=20)

1. What do you understand by incremental delivery? How can it improve the efficiency of software process development?   [6+4]

2. How can we use different models of application architecture? Explain any one application architecture of your choice.   [5+5]

3. Explain the project planning process. List different project plans.   [8+2]

Group B
Attempt any EIGHT questions.   (8×5=40)

4. Explain the reused-based development based on integration and configuration.   [5]

5. Why do you think software maintenance is an important activity? Explain.   [5]

6. Explain the process of acceptance testing.   [5]

7. What different checks need to be carried out while carrying out requirements validation? [5]

8. Explain the scrum sprint cycle of agile software development.   [5]

9. Explain different software engineering ethics that are required in the software engineering profession.   [5]

10. Draw a sequence and an activity diagram for an online vehicle reservation system. Make necessary assumptions.   [5]

11. What do you understand by pipe and filter architecture? Explain.   [5]

12. Write short notes   [2×2.5=5]
    a) Open source development

    b) Configuration management