Tribhuvan University
Institute of Science and Technology
2081
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Bachelor Level / Third Year /Six Semester/Science
Computer Science and Information Technology (CSC 364)
(Software Engineering)
(NEW COURSE)

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

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