Tribhuvan University

Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2023

Bachelor in Computer Applications
Course Title: Software Engineering
Code No: CACS253
Semester: IV

Full Marks: 60
Pass Marks: 24
Time: 3 hours
Batch: 2020

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. What is software engineering? Explain the need of software life cycle models in Software Engineering. [2+3]

3. Why program is developed using evolutionary development are likely to be difficult to maintain? Explain.

4. What is meant by modular design? When and how should a modular design be implemented? [1+4]

5. Write a detailed note on coding standards.

6. Why is SRS document also known as the black box specification of the system? Explain with example.

7. What do you mean by project management? Explain the project planning and project scheduling with example. [1+4]

8. Explain COCOMO model for software cost estimation in detail.

Group C

Attempt any TWO questions. [2×10 = 20]

9. What is configuration Management? What are the five levels of CMM? List important features of these levels. [2+2+6]

10. Explain the software requirement analysis and specification. Discuss various methods for requirement gathering. [4+6]

11. Write a detailed note on test case design techniques. Which method is best in integration testing? Top down or bottom up. Support your answer. [5+5]