

Tribhuvan University
Institute of Science and Technology
2081
☆

Bachelor Level / Fourth Year/ Seventh Semester/ Science
Computer Science and Information Technology (CSC415)
(Software Project Management)
(NEW COURSE)

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

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

Section A

Attempt any TWO questions.

[2 × 10 = 20]

1. Draw precedence network diagram for the following activities and find the critical path. Indicate the process for shortening the project duration. [7 + 3]

Activity	Duration (Week)	Precedence
A	4	
B	2	A
C	5	A
D	2	
E	4	C,D
F	3	
G	4	B,E,F

2. Why do you think economic analysis is an important activity? Explain the terms present worth, future worth and annual worth. Illustrate on uniform gradient cash flow. [2 + 6 + 2]
3. What are testing principles? List different test strategies. Explain SQA plan. [2 + 2 + 6]

Section B

Attempt any EIGHT questions.

(8 × 5 = 40)

4. Explain different types of project plan. [5]
5. Suppose the cost price of 1 piece of USB-drive is Rs. 1000. You bought 1000 pieces and also paid Rs 2000 as a delivery charge. Calculate ROI if you would sell those USB-drive for Rs. 1500 per piece. [5]
6. Why do you think resource smoothening and resource balancing is required? Explain how it is carried out? [2 + 3]
7. Explain any two methods of visualizing progress of a project. [5]
8. What are different stages in contract? Explain. [5]
9. What is SEI-CMM? Explain its importance. [2 + 3]
10. Highlight on configuration management responsibilities. [5]
11. Explain the process of risk analysis. [5]
12. Write short notes on [2 × 2.5 = 5]
 - a. Baseline
 - b. Schedule variance