## Tribhuvan University Institute of Science and Technology 2080

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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 for as practicable. The figures in the margin indicate full marks.

## Section A

Attempt any TWO questions.

 $(2 \times 10 = 20)$ 

Perform Earned Value Analysis of the given project.

(10)

Activity	Duration (days)	Precedence	Cost/day (Rs.)
A	6 .		100
В	6	Α	100
С	. 8	В	200
D	4 .	В	300

The progress after the end of 16th day is as follows:

Activity	% completion	Incurred Cost
A	100	800
В	100	400
С	25	500
D	50	400

Calculate SV, SPI, CV, and CPI respectively.

- 2. Elaborate on the issues and questions to be considered during strategic assessment. List the categories of direct cost and benefits and provide two examples of each. (5+5)
- 3. Explain about different categories of resources? Highlight on the process of resource histogram equalization. Why do you think it is a crucial activity? (2+6+2)

## Section B

Attempt any EIGHT questions.

 $(8\times 5=40)$ 

4. Calculate discounted payback period for the following project.(5)

Year	Project
0	-200,000
1	100,000
2	50,000
3	50,000
4	100,000
5	50,000

5. What are the objectives that activity planning aims to achieve?

(5)

6. Explain SPM framework.

(5)

Highlight on different types of contracts.

(5)

8/ Draw precedence network diagram for the following and identify the critical path.

(5)

Activity	Duration (weeks)	Precedence
Α	2	the same and
В	2	
С	4	Α
D	2	В
E	4	B.D

Explain capability process model.

(5)

16. How can Software Configuration Management aid in change control and version control? (5)

11. What are the practical implications of Risk Exposure?

(5)  $(2 \times 2.5 = 5)$ 

12. Write short notes on:

a. Future worth b. Bubble chart