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**INTERNAL EXAMINATION
SEPTEMBER/OCTOBER SEMESTER 2020**

**BACHELOR OF COMPUTER SCIENCE (HONS.)
(IN COLLABORATION WITH IUKL)**

**SOFTWARE PROJECT MANAGEMENT
(CSC2330)**

(TIME: 1 HOURS)

MATRIC NO. :

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IC. / PASSPORT NO. :

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LECTURER : SATYAM PAUDEL

GENERAL INSTRUCTIONS

1. This question booklet consists of 3 printed pages including this page.
2. Answer **ALL** questions in the **ANSWER BOOKLET**.
3. **PLEASE DO NOT TURN THIS PAGE AND START THE EXAM UNTIL YOU ARE TOLD TO DO SO.**

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(30 MARKS)

There are TWO (2) questions in this section. Answer ALL Questions in the Answer Booklet.

1. Perform a financial analysis of a project assuming that the projected costs and benefits for this project are spread over four years as follows:

Estimated costs and benefits are given below.

Use an 8 percentage discount rate, round the discount factors to two decimal places.

Discount rate	8%			
	Year 0	Year 1	Year 2	Year 3
Costs	1,40,000	40,000	40,000	40,000
Benefits	0	2,00,000	2,00,000	2,00,000

- a. Create a financial template on the paper to calculate Discount Factor, Discounted Cost and Discounted Benefits for each year. (6 marks)
- b. Calculate Net present Value. (3 marks)
- c. Calculate Return on Investment (ROI). (2 marks)
- d. Calculate the year in which the payback occurs. (2 marks)
- e. Suggest whether you would recommend investing in this project with the justification. (2 marks)

2. Assume that you have completed three months of the project. The BAC was \$200,000 for the six-month project. You can also make the following assumptions:

PV= \$120,000

EV= \$100,000

AC= \$90,000

- a. Calculate Cost variance. (2 marks)
- b. Calculate Schedule variance for the project. (2 marks)
- c. Calculate the Cost Performance Index. (2 marks)
- d. Calculate the Schedule Performance Index. (2 marks)
- e. Calculate the Estimate at Completion. (2 marks)
- f. Estimate how long it will take to complete the project. (2 marks)
- g. Is the project performing better or worse than planned? Is it behind or ahead of schedule? Is it under budget or over budget? (3 marks)

***** END OF QUESTIONS *****