

**MSENO UNIVERSITY**  
**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**  
**YEAR 4 SEMESTER 1 SEPTEMBER - DECEMBER 2022**  
**CCS 401 SOFTWARE PROJECT MANAGEMENT**  
**ASSIGNMENT(CAT 1)**

**DATE DUE:** 8/11/2023

**INSTRUCTIONS:** Answer **ALL** Questions

**Q1. (20 marks)**

Project communication management team is essential for the success of a project.

- a) Give detailed guidelines for writing effective reports. **[4 marks]**
- b) What different techniques can be used by the project manager to manage conflict in project teams? **[8 marks]**
- c) Critically contrast an intranet (or a secure part of a web site) to email as a communication tool for a project team during the different phases of a project where the team members rarely meet face-to-face. Clearly identify what features you would expect the intranet to contain that email cannot provide. **[8 marks]**

**Q2. (20 marks)**

Project risk management is necessary to identify and counteract threats to the successful implementation of a project.

- a) Describe a method for quantifying the negative risks associated with a project. **[6 marks]**
- b) Company physical networks are usually well-protected by firewalls, with automatic updates of anti-virus software and installation of operating system patches and clear security policies enforced by security staff. Company wireless network, however, can be a significant risk to the organization. Evaluate the specific negative risks involved if a company moves from a physical to a wireless network and critically evaluate how the risk can be managed. **[8 marks]**
- c) There are a variety of response strategies to negative risk. Describe these in detail and critically evaluate how they would be applied in the example above (the migration to a wireless network). **[6 marks]**

**Q3. (20 marks)**

Project schedules are a key aspect of project management.

- a) Draw an appropriate diagram and calculate the critical path and critical time duration for a project consisting of these activities. **[10 marks]**

Activity	Predecessor(s)	Duration (in days)
A	-	5
B	-	4
C	A	3
D	A	4
E	A	6
F	B, C	4
G	D	5
H	D, E	6
I	F	6
J	G, H	4

- b) As project manager you have been told to reduce the overall project duration of the above project by 4 days. You first decide to reduce each of the tasks on the critical path by one day each, but find that is not enough. Explain why this is the case, and suggest what else you would need to do to achieve the target. **[10 marks]**
- c) What additional information would be needed to use the Program Evaluation and Review Technique (PERT) for the above project? **[5 marks]**