The Open University of Sri Lanka
Faculty of Engineering
BSE Honours Degree Programme

Department	: Electrical and Computer Engineering
Level	: 6
Name of the Examination	: Final Examination
Course Title and - Code	: Software Project Management – EEI6360
Academic Year	: 2024/25
Date	: 10/08/2025
Time	: 01.30pm – 04.30pm
Duration	: 3 hrs.

General Instructions

1. Read all the instructions carefully before answering the questions.
2. This question paper consists of **4 questions** in **two (2)** pages.
3. Answer all questions.
4. Answer for each question should commence from a new page.
5. Draw fully labelled diagrams where necessary.
6. Write answers in clear and concise format appropriately in points/bullet form.
7. Involvement in any activity that is considered as an exam offense will lead to punishment.
8. Use blue or black ink pen to answer the questions.
9. Clearly state your index number in your answer script on every page.

Question 1

You are managing a distributed software development project involving multiple teams across different time zones. Due to the complexity of communication and delivery, it is crucial to proactively manage risks to avoid delays, cost overruns, or quality issues.

a) Identify and discuss the key components of a Risk Management Plan that you would develop for this project. Your answer should describe how risk identification, escalation paths, stakeholder involvement, and the selection of tools and techniques are handled throughout the project. **(15 Marks)**

b) Compare qualitative and quantitative risk analysis approaches in the context of this project. In your answer, define each approach, highlight their differences, and give two examples of techniques used in each. **(10 Marks)**

Question 2

a) Explain the key responsibilities of the **Product Owner**, **Scrum Master**, and **Developers** in a Scrum team. Explain how their collaboration contributes to project success. **(15 Marks)**

b) Compare and contrast **iterative** and **incremental** development approaches. Use a software feature delivery example to demonstrate how each approach would operate. **(10 Marks)**

Question 3

a) Discuss scope, time, and cost constraints in Agile projects. Explain how Agile methods help manage and adapt to changes in these constraints. **(15 Marks)**

b) Differentiate between leading and lagging indicators in project performance measurement. Provide one example of each in an Agile project and explain their significance. **(10 Marks)**

Question 4

a) Describe what is meant by project, program, and portfolio in the context of software engineering. Provide one example of each within a technology company and explain how they differ in purpose and scope. **(15 Marks)**

b) Identify the two common methods used to prioritize and select projects in a software portfolio. Explain how each method helps align projects with organizational goals and resource constraints. **(10 Marks)**

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