



Daffodil International University

Faculty of Science & Information Technology

Department of Software Engineering

Midterm Examination, Summer - 2026

Course Code: SE 411; Course Title: Software Project Management & Documentation

Sections 44 (A, B, C, D,E, F, G, H & I) Teachers: MKS, MH, FF, KNA & MSN

Time: 1:30 Hrs

Marks: 25

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

Case study: Read, invent and incorporate information where necessary.

AI-Powered Healthcare Management System

While developing an AI-powered Healthcare Management System for a network of hospitals, you, as the Project Manager, discovered that patient data privacy regulations are very strict and compliance is mandatory. The client expects an operational prototype within 4 months. However, medical records are scattered across different hospitals and stored in incompatible formats.

The project team consists of 18 technical and non-technical members. Several doctors and healthcare professionals are available only part-time for requirements gathering. The budget is moderate, but any security breach could result in severe penalties and loss of client trust.

1.	a. Allocate two requirements in an empty RTM related to above case. b. Generate a list of success factors which are appropriate for this project.	[Marks-3] [Marks-3]	CLO-1 Level-3
2.	a. Identify the values of Network Diagram with CP after filling the “?” sections below. <pre> graph LR Start([0]) --> A[7 A] Start --> B[3 B] A --> C[? C] A --> D[8 D] B --> E[? E] C --> F[10 F] D --> G[? G] E --> G F --> H[6 H] G --> I[? I] H --> I I --> J[6 J] I --> K[3 K] J --> L[5 L] K --> End[] L --> End </pre> b. Outline a sample budget for the above project given in case study. c. Identify one quality issue from the given case and explain how quality can be improved with any quality management tool. d. Distinguish between i. EV vs PV; ii. CV vs SV; and iii. Contingency Reserve vs Management reserve.	[Marks-6] [Marks-5] [Marks-5] [Marks-3]	CO-2 Level-4