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Description automatically generated

**Data Structures & Algorithms (DSA)**

Year 2 (2024/25), Semester 4

## SCHOOL OF INFOCOMM TECHNOLOGY

Diploma in Information Technology

Diploma in Cybersecurity & Digital Forensics

**COMMON TEST REVISION – SOLUTION DOCUMENT**

INSTRUCTIONS TO CANDIDATES:

1. Write your Student Number, Name and Module Group CLEARLY in the boxes provided below.
2. Provide your answers to the questions in the Common Test paper in this document.
3. Save this file as "DSA Oct 2024 CT – XXX Solution.docx" where XXX is your name.
4. Submit this solution file to BrightSpace.

|  |  |
| --- | --- |
| **Student Number:** | **Seat Number:** |
| **Student Name:** | **Module Group:** |

**GRADE**

There are 4 questions. Answer ALL questions (100 marks).

Write your solutions to the questions in the space allocated for each question.

Question 1 – Solution (25 marks)

|  |  |
| --- | --- |
| (a) |  |
|  | (10 marks) |
| (b) |  |
|  | (10 marks) |
| (c) |  |
|  | (5 marks) |

Question 2 – Solution (25 marks)

|  |  |
| --- | --- |
| (a) |  |
|  | (10 marks) |
| (b) |  |
|  | (10 marks) |
| (c) |  |
|  | (5 marks) |

Question 3 – Solution (25 marks)

|  |  |
| --- | --- |
| (a) |  |
|  | (10 marks) |
| (b) |  |
|  | ( 5 marks) |
| (c) |  |
|  | (10 marks) |

Question 4 – Solution (25 marks)

|  |  |
| --- | --- |
| (a) |  |
|  | (6 marks) |
| (b)  (i) |  |
|  | (8 marks) |
| (ii) |  |
|  | (6 marks) |
| (iii) |  |
|  | (5 marks) |

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