

CS1020 Data Structures and Algorithms I

ANSWER SHEETS

INSTRUCTIONS TO CANDIDATES

1. This document consists of **FOUR (4)** printed pages.
2. Write your Student Number and Tutorial group clearly below with a pen.
3. You may use pencil to write your answers.

STUDENT NUMBER:

| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| A | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|

TUTORIAL GROUP

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| <i>For examiners' use only</i> | | |
|--------------------------------|------------|--------------|
| <i>Question</i> | <i>Max</i> | <i>Marks</i> |
| Q0 | 1 | |
| Q1-5 | 5 | |
| Q6 | 2 | |
| Q7 | 3 | |
| Q8 | 5 | |
| Q9 | 6 | |
| Q10 | 9 | |
| <i>Total</i> | 30 | |

MCQs

(Bonus) Q0:

Q1. Q2. Q3. Q4. Q5. [5 marks]

Q6. [2 marks]

Q7. [3 marks]

i.

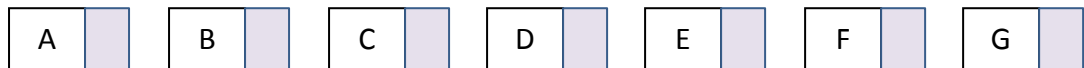
ii.

iii.

Q8. [5 marks]
 (a) [2 marks]

After executing the algorithm on the given linked list:

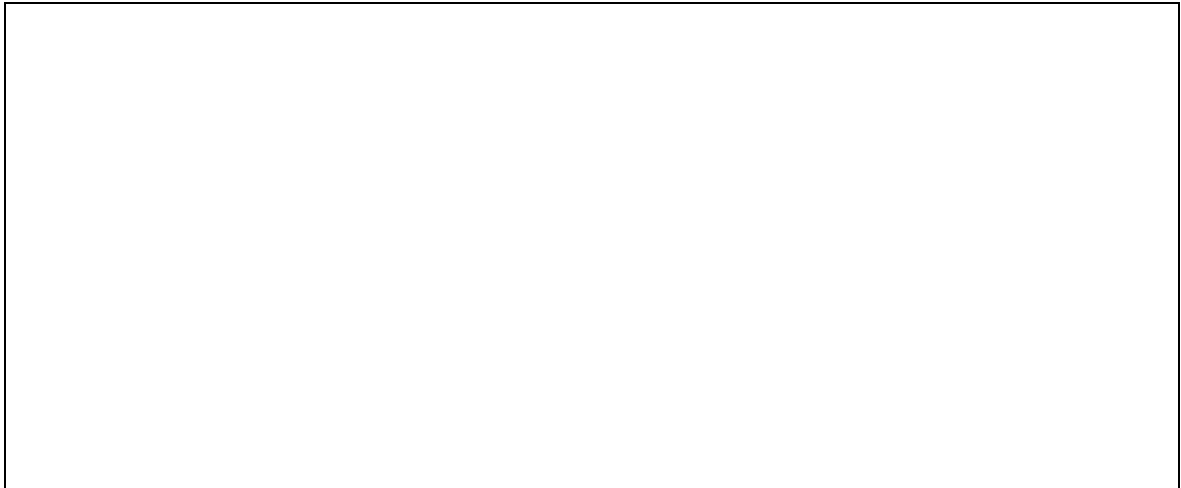
head



head2

(b) [3 marks]

Q8. (Continue here only if you need more space.)



Q9.

[6 marks]

