

Candidate 1

The evidence for this candidate has achieved the following marks for each question of this course assessment component.

Question 1 (b) (ii)

The candidate was awarded **1 mark** because they described use of insertion sort to arrange the list of articles in reverse chronological order.

Question 1 (c) (ii)

The candidate was awarded **2 marks** because correct use has been made of connection parameters and the connection has been closed.

Question 2 (a)

The candidate was awarded **2 marks** because the scope and constraints have been correctly identified from the information provided in the scenario.

Question 2 (b) (i)

The candidate was awarded **2 marks** because potential breach of Copyright, Design and Patens Act were identified together with use of a patent and a potential legal battle.

Question 2 (c) (i)

The candidate was awarded **3 marks** because they used the SQL CREATE statement correctly with appropriate data types for all 4 fields and attempted to indicate the correct foreign key.

Question 2 (c) (ii)

The candidate was awarded **1 mark** because the correct join and search criteria have been used although the query has no FROM clause.

Question 2 (d)

The candidate was awarded **1 mark** because the algorithm did not check if an empty queue had been made and no use was made of the front pointer when the item was deleted from the queue. However, the candidate did attempt to update the front pointer.

Question 3 (a) (i)

The candidate was awarded **3 marks** because they provided an explanation of the difference between a class and an object and of inheritance making appropriate references to the UML class diagram. However, the explanation of encapsulation does not refer to the UML class diagram.

Question 3 (d) (i)

The candidate was awarded **2 marks** because the correct push and pop operations were used.

Question 3 (d) (ii)

The candidate was awarded **1 mark** because their response indicates the updating of the pointers but does not indicate how nodes are used to store the new value.

Question 4 (a) (ii)

The candidate was awarded **1 mark** because comparisons within the conditional loop make appropriate updates.

Question 4 (b)

The candidate was awarded **1 mark** because their response indicates that the correct record was identified.