Q1) When you performed the tasks, you may have used constants. [2+2]

Write suitable declarations for two of these. State what you used each one for.

Constant in task 1 ......................................................................................................................................

Use ............................................................................................................................................................

…………………………………………........................................................................................................................

Constant in task 3 ......................................................................................................................................

Use ............................................................................................................................................................

…………………………………………........................................................................................................................

Q2) Fill in the following identifier table for task 1: [2+2]

 Variable Data Type Purpose

Q3) Arrays are data structures. State how do you decide size of array in task 1? [2]

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Q 4) State arrays you have used in task 1 (3 arrays only): [3+3]

 Data structure name Data Type Purpose

Q5) Fill in the following identifier table for task 2 (2 variables only): [4]

 Variable Data type Description

Q 6) State arrays you have used in task 2 (2 arrays only): [4]

Data structure name Data Type Purpose

Q7) Fill in the following identifier table for task 3 (3 variables only): [3+3]

Variable Data type Description

Q7) Fill in the following identifier table for task 3 (3 variables only): [3+3]

 Variable Data type Description

Q 8) Write an algorithm to complete Task 1, using either pseudo code, programming statements or a

flowchart. Do not include declaration of variable. [6]

Q 9) Write an algorithm to complete Task 2, using either pseudo code, programming statements or a

flowchart. Do not include declaration of variable. You can assume that the task 2 is already completed.[6]

Q 10) Write an algorithm to complete Task 3, using either pseudo code, programming statements or a

flowchart. Do not include declaration of variable. You can assume that the task 1 & 2 are already

completed. [6]

Q 11) Explain how do you validate that there are at least 10 items for auction . Include programming

statement to support your explanation. [5]

Explanation: ....................................................................................................................................................

Programming Statements: ............................................................................................................................... .

Q 12) Give three different data sets that could be used to check your validation rules for Task 1.

 Explain why you chose each data set. [2+2+2]

Data set 1: .....................................................................................................................................................

Reason for choice: .........................................................................................................................................

Data set 2: .....................................................................................................................................................

Reason for choice: .........................................................................................................................................

Data set 3: .....................................................................................................................................................

Reason for choice: .........................................................................................................................................

Q 13) Explain how do you ensure that item numbers are unique. Include programming statement to

support your explanation. [4]

Explanation: ....................................................................................................................................................

Programming Statements: ...............................................................................................................................

Q 14) Draw flowchart to input and store description and reserve price, assign item number and initialise

number of bids with 0 in task 1. [6]

Q 15) Describe how do you assign unique number to each buyer in task 2 with the help of programming

statements. [4]

Explanation: ....................................................................................................................................................

Programming Statements: ...............................................................................................................................

Q 16) Explain how do you confirm that offered bid is greater than existing bid with the help of

programming statement in task 2. [1 + 2+3]

Validation Rule: ..............................................................................................................................................

Explanation: ..................................................................................................................................................

Programming Statement for validation:

Q 17) Give two different data sets that could be used to check validation rules in Q 16.

Explain why you chose each data set. [2+2]

Data set 1: .....................................................................................................................................................

Reason for choice: .........................................................................................................................................

Data set 2: .....................................................................................................................................................

Reason for choice: .........................................................................................................................................

Q 18) Comment on efficiency of code you have written in Q 16 above. [2]

Q 19) Write down programming statements to input item number to bid in task 2 including validation check. [3]

Q 20) Write down pseudo code to initialise COUNTing and TOTALing variables of task-3. [4]

Q 21) Explain how do you mark an item “SOLD”. You should include programming statements to support

your explanation. [5]

Explanation: ....................................................................................................................................................

Programming Statements: ...............................................................................................................................

Q 22) Draw program flowchart for the programming statements you have written in Q 21. [5]