PRM – Oct/Nov 2020 – P22

1 **(a)** All variables, constants and other identifiers must have meaningful names.

Describe the data structures you have used to store the data for the computer components in **Task 1**. Include the name(s), data type and usage for each structure.

.....

.....

.....

.....

.....

.....

..... [4]

(b) State **one** variable used in **Task 2**.

Include its data types and purpose.

Variable name .....

Data type .....

Use .....

..... [3]

(c) Explain how you calculated the discount on the overall computer price in **Task 3**.

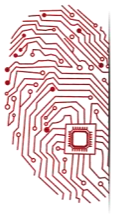
.....

.....

.....

.....

..... [3]



PRM – Oct/Nov 2020 – P22

(d) Write an algorithm for **Task 1**, using **either** pseudocode **or** programming statements.

Assume that the data structures for storing data about computer components have already been populated.

[5]

03-111-222-ZAK | OlevelComputer AlevelComputer | @zakonweb | zak@zakonweb.com | www.zakonweb.com

(e) Using **either** pseudocode **or** programming statements, write an algorithm for **Task 2**. Use comments within the program to explain how **Task 1** has been extended to meet the requirements for **Task 2**.

Assume that **Task 1** has been completed.

[5]

03-111-222-ZAK | OlevelComputer AlevelComputer | @zakonweb | zak@zakonweb.com | www.zakonweb.com

(f) Suppose the computer shop wants the program to display, if discount is applicable, the money saved as a percentage of the initial price of the computer.

Write an algorithm for **Task 3**, using **pseudocode**, including this new feature. Use comments within the algorithm to outline the part of the code which fulfils this new requirement.

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... [5]