Paper reference 1CP2/01
Pearson Edexcel
Level 1 / Level 2 GCSE (9-1)

COMPUTER SCIENCE
UNIT 1: PRINCIPLES OF COMPUTER SCIENCE

Data Book

In the boxes below, write your name, centre number and learner registration number.

Surname							
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X67312A

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INSTRUCTIONS

There may be spare copies of some diagrams incase you need them.

THIS DATA BOOK MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

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10 Question 5 (d) (Spare copy)

Question 5 (a)

Algorithm that prints colours

```
1  # ---------- Global variables ----------
2  inkColours = [“Cyan”, “Magenta”, “Yellow”, “Black”]
3
4  # ---------- Subprograms ----------
5  def displayAll (inList):
6        for index in range (0, len (inList)):
7              print (index, inList[index])
8
9  # ---------- Main Program ----------
10 userInput = input (“Would you like to see the colours? ”)
11 if ((userInput == “y”) or (userInput == “Y”)):
12     displayAll (inkColours)
13 else:
14         print (“Thank you”)
```

Question 5 (b)

Algorithm searches a sorted array of numbers for a target value.

```
18  while ((index < len (theArray)) and (not found) and (not passed)):
19          if (theArray[index] == theTarget):
20              found = True
21              location = index
22          elif (theArray[index] > theTarget):
23              passed = True
24          index = index + 1
```

Question 5 (c)

Program which checks the weight of boxes of strawberries from Laura's shop.

```
1   count = 0
2   weight = 0
3   accept = 0
4   reject = 0
5
6   while (count < 4):
7           count = count + 1
8           weight = int (input ("Enter weight of box:  "))
9           if ((weight < 395) or (weight > 405)):
10              reject = reject + 1
11          else:
12                accept = accept + 1
13
14  print (accept, reject)
```

Question 5 (c)

Trace table showing the execution of the program with these inputs.

count	accept	reject	weight	Display

Question 5 (c)

count	accept	reject	weight	Display

Question 5 (d)

Blank space to draw a flowchart to show the algorithm.

Question 5 (d)