



Shrewsbury School

SHREWSBURY SCHOOL

SIXTH FORM ENTRANCE EXAMINATION 2010

COMPUTING AND ICT

(1 hour)

Instructions to candidates:

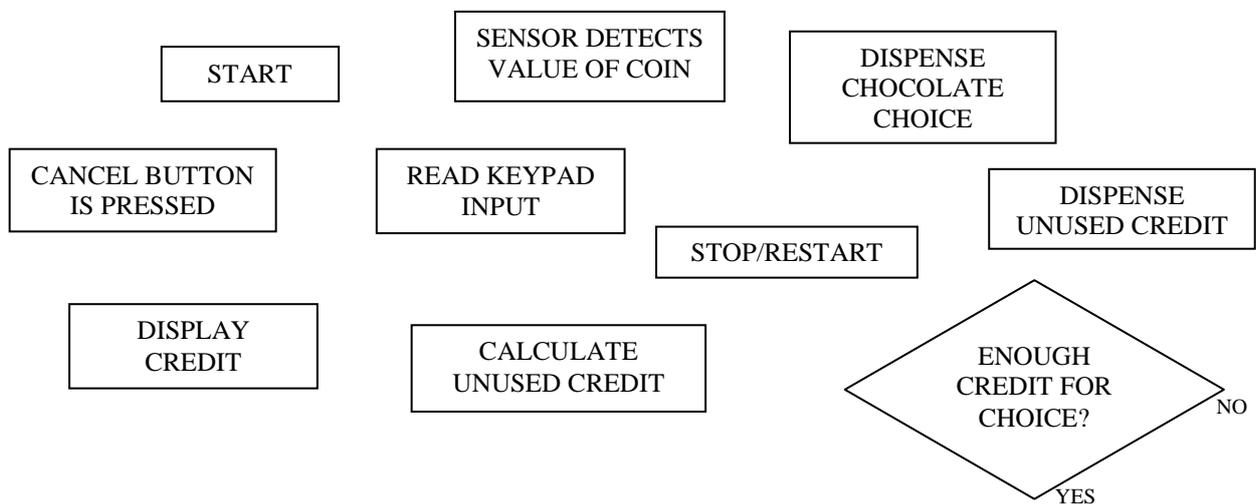
- Structured short-answer questions – answer both questions
- Extended writing section – choose 3 questions to answer
- Answer on lined paper

Structured short-answer questions

Attempt both questions.

1. A garden centre uses an 'Office' package of software that includes a word-processor, spreadsheet, database, desktop publishing and drawing applications.
 - a) Which application would be most suitable to produce a company newsletter? Why? [2]
 - b) Describe 3 key features that you would expect to find in a spreadsheet application. [3]
 - c) Give 2 uses that the company might have for the word-processor. [2]
 - d) Give 3 examples of the kind of data would you expect the garden centre to store on its database. [3]

2. A chocolate vending machine allows users to input coins, make their selection using a keypad, collect their chocolate and change. An LED display shows the amount of credit entered. A cancel button can be pressed at any time and the machine will refund any unused credit.
 - a) Identify the 3 input devices. [3]
 - b) Identify the 3 output devices. [3]
 - c) Design a control program, in the form of a flowchart, using the components shown below. You may use the components more than once and you may have to do some things in parallel.



[5]

Extended writing section

Choose 3 out of the 5 possible topics. You are expected to write somewhere between half and a full page for each. You can write in sentences, or a list might be more appropriate for some questions.

1. Copyright applies to all creative work such as plays, songs, films and photographs. Describe how ICT has such a powerful influence on the illegal use of copyrighted material. What can be done to limit the problem?

2. Write a short description of the following 3 different categories of websites:
 - a) Search engines (eg Google and Yahoo)
 - b) Social networking sites (eg Facebook and MySpace)
 - c) Shopping sites (eg Amazon)

3. What specification would you look for when buying a new mobile phone for personal use? Include technical details of each component and give reasons for your choice. Specify both hardware and software items.

4. Some say that the tablet PC, such as the Apple iPad is the future of personal computing. Write a short essay giving a balance of views on both sides of this argument. Finish with a conclusion as to whether you think this statement is true or not.

5. Many people share their personal data on the Internet.
 - a) What do we mean by personal data?
 - b) Give 2 benefits and 2 dangers of this practice?
 - c) What advice should be given to young people?

[15 marks each]

[Total marks 66]