

Candidate Name _____

Centre Number	Candidate Number

International General Certificate of Secondary Education
UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATION SYNDICATE

INFORMATION TECHNOLOGY
PAPER 1

0418/1

SPECIMEN PAPER

Candidates answer on the question paper.
No additional materials are required.

TIME 1 hour 15 minutes

INSTRUCTIONS TO CANDIDATES

Write your name, Centre number and candidate number in the spaces provided on the answer paper/answer booklet.

Answer **all** questions

Write your answers in the spaces provided on the question paper.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets [] at the end of each question or part question.

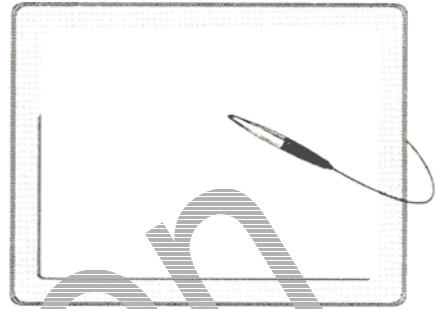
This question paper consists of 10 printed pages

1 Name the objects **A**, **B**, **C**, **D** and **E** using the words from the list.

A



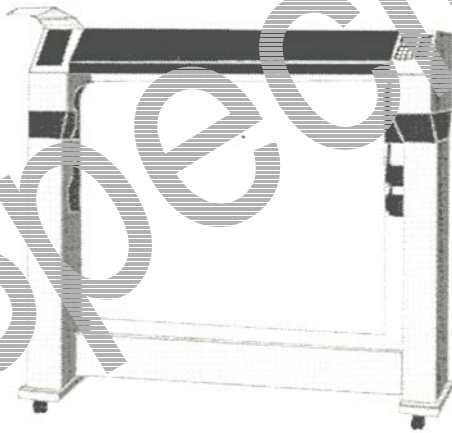
B



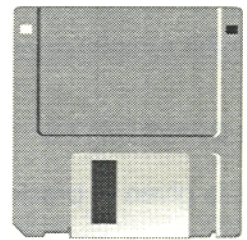
D



C



E



CD-ROM

desktop computer

disc drive

floppy disc

graphics tablet

hand scanner

modem

laptop computer

plotter

robotic arm

screen

video digitiser

A _____

B _____

C _____

D _____

E _____

[5]

2 Ring **two** items which are used to output data from a computer.

digitiser	joystick	keyboard	
mouse	robot arm	speaker	[2]

3 Ring **two** items which contain personal data.

burglar alarm	car park ticket	credit card	
digital speedometer	library card	remote control	[2]

4 Draw **four** lines on the diagram to match the software to its use. ~~One~~ has been done for you.

Software

Word processor

Spreadsheet

Graphics program

Database

Control program

Use

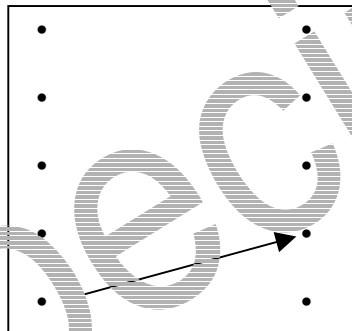
accounting

room design

storing records

controlling traffic lights

writing letters



[4]

5 Data about pupils is stored in a datafile.

a) Give **one** reason why the date of birth is stored and not the age of the pupil.

_____ **[1]**

b) Give **one** reason why each record has a record number.

_____ **[1]**

c) Give **one** reason why the data for Male or Female is coded M or F.

_____ **[1]**

d) Give **one** reason why the data is validated.

_____ **[1]**

6 A floor turtle can use the following instructions:

INSTRUCTION	MEANING
FORWARD n	Move n mm forward
BACKWARD n	Move n mm backward
LEFT t	Turn left t degrees
RIGHT t	Turn right t degrees
PENUP	Lift the pen
PENDOWN	Lower the pen



Complete the set of instructions which draw this shape by filling in the blank lines.

PEN DOWN
 FORWARD 50
 RIGHT 90

[4]

7 Describe two ways Information Technology can help pupils with their homework.

1 _____

2 _____

[2]

8 At the end of a lesson a pupil makes a backup of the work done on a word processor.

a) What is a backup? _____

b) Why is it made? _____

[2]

9 State two ways in which Information Technology can be used in the production of a school play.

1 _____

2 _____

[2]

10 Give two ways computers are used to monitor traffic.

1 _____

2 _____

[2]

11 Pupil records and school accounts are kept on a computer in the office of the school secretary.

a) Select from the list **one** item of hardware and **two** items of software that are required.

CAD**compact disc****database****data logger****graphics package****hard disc****spreadsheet**

Hardware _____

Software _____

Software _____

[3]

- b) Give **two** occasions when a pupil's record will need to be altered.

Occasion 1 _____

Occasion 2 _____

[2]

- c) State **two** ways in which the school accounts can be protected from unauthorised access.

1 _____

2 _____

[2]

- 12 One reason for using a computer model is to reduce cost by not having to build the real thing. Give **two** other reasons.

Reason 1 _____

Reason 2 _____

[2]

- 13 Give two advantages of using automatic data logging equipment rather than taking readings manually.

Advantage 1 _____

Advantage 2 _____

[2]

- 14** A pupil is researching material for a school project. The pupil has a computer which has a CD ROM drive and access to the Internet.

Give one advantage of using the Internet rather than a CD ROM.

_____ [1]

Give one advantage of using a CD ROM rather than the Internet.

_____ [1]

- 15** A youth club asks you to create a database of members. State four things you would need to consider before creating the database.

1 _____

2 _____

3 _____

4 _____

[4]

- 16** State **two** disadvantages to you of using a computer to shop from your home.

Disadvantage 1 _____

Disadvantage 2 _____

[2]

- 17** State two ways by which you can prevent a virus getting onto your computer

1 _____

2 _____

[2]

18 State **two** disadvantages of having an Internet connection at home.

Disadvantage 1 _____

Disadvantage 2 _____

[2]

19 A designer uses a computer aided design (CAD) package to create images on the screen.

Describe **three** features of a CAD package.

a) Feature 1 _____

Feature 2 _____

Feature 3 _____

[3]

b) A printer could be used with the CAD package. Name **one** other output device which would be appropriate to display the drawings on paper.

20 Give two ways in which a computer password can be kept secure.

1 _____

2 _____

[2]

21 A computerised robot is learning to travel round a maze.

a) State two sensors which would be used to detect the wall.

Sensor 1 _____

Sensor 2 _____

[2]

b) When the robot detects a wall it will stop. Describe what the robot should be instructed to do to continue through the maze.

[4]

22 A computer room contains 20 machines that children use for 40 minutes each day. Give **three** safety measures, with reasons, which should be taken.

Feature 1

Reason 1

Feature 2

Reason 2

Feature 3

Reason 3

[6]

