INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use pencil or gel pen. Do not use correction fluid.
Write your name, centre number and candidate number in the spaces at the top of this page.
Answer all questions.
Write your answers in the spaces provided in this booklet.
If you run out of space, use the continuation page at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.
Quality of written communication will be assessed in question 12.
Answer all questions in the spaces provided.

1. A school has used word processing software to produce the sponsor form shown below.

(a) Tick (√) the three correct boxes to show which features of word processing software have been used on this sponsor form. [3]

Tick (√)

- Bullet points
- Table
- Word art
- Clipart
- Italic text
(b) **Tick (√) the feature of the software that could be used to find the error on the sponsor form.**

Tick (√)

- Thesaurus
- Spell Check
- Word Count

(c) Other than *word processing* or *email software*, state **two** different types of software that could be used in organising the fun run. Give an example of how each could be used.

Type of software 1 ....................................................................................................................................................................
Example of use ............................................................................................................................................................................
...................................................................................................................................................................................................
...................................................................................................................................................................................................
Type of software 2 ....................................................................................................................................................................
Example of use ............................................................................................................................................................................
...................................................................................................................................................................................................
2. Email is used by many people.

(a) Describe what is meant by an email. [2]

(b) From the list below, select the most suitable feature of email software to match each description in the table by circling the correct letter in the boxes. Use each letter only once. [4]

<table>
<thead>
<tr>
<th>Description</th>
<th>Letters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows you to add a personal item to the email</td>
<td>A B C D</td>
</tr>
<tr>
<td>Allows you to send the same email to more than one person at once</td>
<td>A B C D</td>
</tr>
<tr>
<td>Allows you to send a photograph with your email</td>
<td>A B C D</td>
</tr>
<tr>
<td>Allows you to store contact details</td>
<td>A B C D</td>
</tr>
</tbody>
</table>

(c) The misuse of email can cause problems. State one misuse and give a way of preventing it. [2]

Misuse: ..............................................................................................................................................................................................

Prevention: .....................................................................................................................................................................................
3. ICT is used for home entertainment.

(a) **Tick (✓) the correct box to show which of the following is used for input, output or storage. The first one has been done for you.** [4]

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gamepad</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Joystick</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory card</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speakers</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) Computer games are used for home entertainment.

(i) **Give two advantages of playing computer games.** [2]

(ii) **Other than health problems, give two disadvantages of playing computer games.** [2]

(c) **Other than playing games, state one use of Bluetooth connectivity on mobile phones for home entertainment.** [1]

(d) **Wireless broadband connection has had a big impact on home entertainment. Give one advantage of a wireless connection in the home.** [1]
4. Digital photography is widely used.

(a) Name an output device used in digital photography. [1]

(b) Name four different features of photo editing software and describe how each is used in digital photography. 4 \times 1 [4]

Feature 1: ...........................................................................................................................................................................

Feature 2: ...........................................................................................................................................................................

Feature 3: ...........................................................................................................................................................................

Feature 4: ...........................................................................................................................................................................

5. Social networking is now very popular.

(a) Other than sharing photographs and videos, name two different uses of social networking. [2]

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(b) Other than addiction, give one specific danger of using social networking. [1]

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...........................................................................................................................................................................................
6. A school uses ICT to collect weather data.

(a) Name **two different** types of sensor used to collect weather data. [2]

Sensor 1 ............................................................................................................................................................................................

Sensor 2 ............................................................................................................................................................................................

(b) **Tick (✓)** the correct box to show which of the following is *data*, which is *information* and which is *knowledge*. [3]

<table>
<thead>
<tr>
<th>DATA</th>
<th>INFORMATION</th>
<th>KNOWLEDGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

(c) Give **two other different** ways of displaying weather information on a computer. [2]
7. A tennis club uses a database to store membership details. Part of the database is shown below.

<table>
<thead>
<tr>
<th>Player ID</th>
<th>Name</th>
<th>DOB</th>
<th>Gender</th>
<th>Fees Paid</th>
<th>Coaching Slot</th>
<th>Player Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1125</td>
<td>V Goodwin</td>
<td>25/06/1995</td>
<td>F</td>
<td>Yes</td>
<td>3</td>
<td>Junior</td>
</tr>
<tr>
<td>1126</td>
<td>L Williams</td>
<td>18/05/1979</td>
<td>F</td>
<td>Yes</td>
<td>1</td>
<td>Adult</td>
</tr>
<tr>
<td>1147</td>
<td>M Khan</td>
<td>22/07/1980</td>
<td>M</td>
<td>Yes</td>
<td>4</td>
<td>Adult</td>
</tr>
<tr>
<td>1256</td>
<td>A Evans</td>
<td>38/03/1975</td>
<td>M</td>
<td>No</td>
<td>2</td>
<td>Adult</td>
</tr>
<tr>
<td>1370</td>
<td>K Smith</td>
<td>07/10/1999</td>
<td>F</td>
<td>Yes</td>
<td>5</td>
<td>Junior</td>
</tr>
<tr>
<td>1372</td>
<td>L Thomas</td>
<td>08/10/1998</td>
<td>F</td>
<td>Yes</td>
<td>6</td>
<td>Junior</td>
</tr>
<tr>
<td>1527</td>
<td>M Jones</td>
<td>31/10/1998</td>
<td>M</td>
<td>No</td>
<td>7</td>
<td>Junior</td>
</tr>
<tr>
<td>1546</td>
<td>G Thraves</td>
<td>23/08/1998</td>
<td>F</td>
<td>No</td>
<td>8</td>
<td>Junior</td>
</tr>
</tbody>
</table>

(a) State how many records are shown in the above database. [1]

(b) State how many fields are shown in the above database. [1]

(c) The key field is Player ID. State the purpose of the key field. [1]

(d) Tick (✓) the correct box to show the data type that is used for the Coaching Slot field. [1]

Tick (✓)

- NUMBER [ ]
- CURRENCY [ ]
- DATE/TIME [ ]
(e) The database contains an error. **State** the error and **describe** a suitable validation technique that could have prevented the error.  

(f) The club wants to find the junior players who haven’t paid their membership fees. Complete the table below to show how they can obtain this information from the database.  

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Operator</th>
<th>Search Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>=</td>
</tr>
<tr>
<td></td>
<td>AND</td>
<td></td>
</tr>
<tr>
<td>Field Name</td>
<td>Operator</td>
<td>Search Criteria</td>
</tr>
<tr>
<td></td>
<td></td>
<td>=</td>
</tr>
</tbody>
</table>

(g) The coach sorts the database into ascending order on the **Coaching Slot** field. Give the Player ID that would appear on top of the list.
8. The spreadsheet shown below records details of monthly finances.

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Month</td>
<td>Income</td>
<td>Wages</td>
<td>Food</td>
<td>Electricity</td>
<td>Water</td>
<td>Gas</td>
<td>Total Costs</td>
<td>Profit</td>
</tr>
<tr>
<td>2</td>
<td>January</td>
<td>£4,000</td>
<td>£1,500</td>
<td>£500</td>
<td>£350</td>
<td>£100</td>
<td>£175</td>
<td>£2,625</td>
<td>£1,375</td>
</tr>
<tr>
<td>3</td>
<td>February</td>
<td>£4,500</td>
<td>£2,000</td>
<td>£750</td>
<td>£320</td>
<td>£100</td>
<td>£100</td>
<td>£3,270</td>
<td>£1,230</td>
</tr>
<tr>
<td>4</td>
<td>March</td>
<td>£5,000</td>
<td>£2,000</td>
<td>£1,000</td>
<td>£320</td>
<td>£100</td>
<td>£80</td>
<td>£3,500</td>
<td>£1,500</td>
</tr>
<tr>
<td>5</td>
<td>April</td>
<td>£5,500</td>
<td>£2,000</td>
<td>£1,000</td>
<td>£300</td>
<td>£100</td>
<td>£75</td>
<td>£3,475</td>
<td>£2,025</td>
</tr>
<tr>
<td>6</td>
<td>May</td>
<td>£7,000</td>
<td>£2,000</td>
<td>£1,500</td>
<td>£400</td>
<td>£100</td>
<td>£75</td>
<td>£4,075</td>
<td>£2,925</td>
</tr>
<tr>
<td>7</td>
<td>June</td>
<td>£8,500</td>
<td>£2,500</td>
<td>£1,500</td>
<td>£400</td>
<td>£100</td>
<td>£100</td>
<td>£4,600</td>
<td>£3,900</td>
</tr>
<tr>
<td>8</td>
<td>July</td>
<td>£9,000</td>
<td>£2,500</td>
<td>£1,500</td>
<td>£420</td>
<td>£100</td>
<td>£120</td>
<td>£4,640</td>
<td>£4,360</td>
</tr>
<tr>
<td>9</td>
<td>August</td>
<td>£9,500</td>
<td>£2,500</td>
<td>£1,500</td>
<td>£440</td>
<td>£100</td>
<td>£75</td>
<td>£4,615</td>
<td>£4,885</td>
</tr>
<tr>
<td>10</td>
<td>September</td>
<td>£8,000</td>
<td>£2,000</td>
<td>£1,500</td>
<td>£500</td>
<td>£100</td>
<td>£75</td>
<td>£4,175</td>
<td>£3,825</td>
</tr>
<tr>
<td>11</td>
<td>October</td>
<td>£6,500</td>
<td>£2,000</td>
<td>£1,500</td>
<td>£350</td>
<td>£100</td>
<td>£100</td>
<td>£4,050</td>
<td>£2,450</td>
</tr>
<tr>
<td>12</td>
<td>November</td>
<td>£4,500</td>
<td>£2,000</td>
<td>£750</td>
<td>£350</td>
<td>£100</td>
<td>£200</td>
<td>£3,400</td>
<td>£1,100</td>
</tr>
<tr>
<td>13</td>
<td>December</td>
<td>£4,100</td>
<td>£2,000</td>
<td>£600</td>
<td>£300</td>
<td>£100</td>
<td>£250</td>
<td>£3,250</td>
<td>£850</td>
</tr>
</tbody>
</table>

(a) State the data in cell A11. [1]

(b) Which of the following formulas could be used to give the Total Costs in cell H2? [1]

A = SUM(C2:G2)
B = B2+C2+D2+E2+F2
C = SUM(A2:H2)
D = C2+D2+E2+F2

(c) Give a suitable formula for working out the Profit in cell I7. [1]

(d) Give two specific advantages of using a spreadsheet for working out the Profit. [2]

Advantage 1 ..................................................................................................................

.................................................................................................................................

Advantage 2 ..................................................................................................................
(e) The chart below shows the Profit.

Profit

£0.00  £1,000.00  £2,000.00  £3,000.00  £4,000.00  £5,000.00  £6,000.00

January  February  March  April  May  June  July  August  September  October  November  December

Tick (√) the box below to show the correct chart type shown.

Tick (√)

Bar Chart

Pie Chart

Line Chart
9. People are concerned about possible health hazards associated with using a computer for long periods of time. Give three different health hazards and their matching preventions. 3 × 2 [6]
10. Concert tickets can be booked on-line from home.

(a) Other than personal/contact details, give two other essential items of data the company would store on their on-line booking system. [2]

(b) (i) Give two advantages to the customer of using an on-line booking system. [2]

Advantage 1 ....................................................................................................................................................................

Advantage 2 ....................................................................................................................................................................

(ii) Give one different advantage to the ticket company of using an on-line booking system. [1]

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Music Tickets

Please enter your details below:

First Name

Last Name

Email Address

Please re-enter your email address
11. Virtual Learning Environments (VLEs) are used in schools.

Give three uses of a VLE by teachers or students. [3]

Use 1 ...................................................................................................................................................................................................................

Use 2 ...................................................................................................................................................................................................................

Use 3 ...................................................................................................................................................................................................................

12. Name three different electronic methods of registering pupil’s attendance in school. For each method, describe how data is captured and give different advantages or disadvantages for these methods. [9]

Remember that the quality of written communication will be assessed in this question.

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