The Digestive System Exam Questions
2012 - Higher

Name an enzyme.
___________________________________________________

Name the substrate that the enzyme you have named acts on.
___________________________________________________

Name the product of the action of this enzyme.
___________________________________________________

What reagent might you use, in a laboratory, to test that the reaction has taken place?
___________________________________________________
Give the name of tooth type A.
_________________________________________________

What is the function of tooth type B?
_________________________________________________
Write the letter **T** beside the **type of tooth** labelled **T**.

Write the letter **F** beside the **function** of this type of tooth.

<table>
<thead>
<tr>
<th><strong>Incisor</strong></th>
<th><strong>Molar</strong></th>
<th><strong>Chewing</strong></th>
<th><strong>Biting</strong></th>
</tr>
</thead>
</table>

Examine the diagram and answer the questions below.

1. In the table write the letter A beside the name of the part labelled A.

2. Write the letter B beside the name of the part labelled B.

3. Write the letter F beside the function of the part labelled B.
2011 - Ordinary

<table>
<thead>
<tr>
<th>Intestine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouth</td>
</tr>
<tr>
<td>Oesophagus</td>
</tr>
<tr>
<td>Digestion</td>
</tr>
<tr>
<td>Egestion</td>
</tr>
<tr>
<td>Excretion</td>
</tr>
</tbody>
</table>

[Diagram of the digestive system with labeled parts A and B, showing the liver and stomach.]
What is digestion?

Why is digestion necessary?

Name the organs labelled A and B.
Organ A ______________________
Organ B ______________________

Give one function of the stomach.

Give one function of the large intestine.
2010 - Higher
Name the part labelled A in the diagram.

Name ________________________

What is the function of part B?

___________________________

___________________________
From the list on the right identify the correct word needed to replace each of the numbers 1 and 2 in the enzyme action given below.

During digestion ______1______ acts on starch found in our food and breaks it down to form ______2______

1 __________________________
2 __________________________
A tooth is labelled T in the diagram.

1. Write the letter T beside the type of tooth labelled T.

2. Write the letter F beside the word on the right which describes the function of this type of tooth.

<table>
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Examine the diagram and answer the questions below.

1. In the table write the letter A beside the name of the part labelled A.

2. Write the letter B beside the name of the part labelled B.

3. Write the letter F beside the function of the part labelled B.
### 2009 - Ordinary

#### Intestine

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Stomach</td>
</tr>
<tr>
<td></td>
<td>Oesophagus</td>
</tr>
<tr>
<td>B</td>
<td>Digestion</td>
</tr>
<tr>
<td></td>
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</tr>
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A pupil performed an experiment in a school laboratory to show the action of a digestive enzyme on a food substance.

- Name an enzyme suitable for such an experiment.

- Name a food substance on which the enzyme that you have named will act.
2008 - Higher

Describe any preparation of the food required before the experiment is performed. If no preparation is required state why.
________________________________________________________
________________________________________________________

Give the temperature at which the enzyme-food mix should be maintained for the experiment to work.
________________________________________________________

How much time is needed for digestion of the food in this experiment?
________________________________________________________
Describe a test to confirm that digestion has occurred.
Give a *digestive function* of organ A. ________________

In the small intestine **starch** is broken down to **maltose** by **amylase**.

Identify the **enzyme**, and the **substrate** named in the reaction above.

**Enzyme** ____________________________________________________________
**Substrate** __________________________________________________________

Give a **function** of the small intestine other than digestion.
**Function** ___________________________________________________________
Two teeth are labelled T in the diagram.

In the table on the right write the letter T beside the type of tooth labelled T.

Write the letter F beside the function of that type of tooth.
2007 - Ordinary

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</tr>
<tr>
<td>Tearing</td>
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### Intestine

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</tr>
<tr>
<td>B</td>
<td>Oesophagus</td>
</tr>
<tr>
<td>C</td>
<td>Stomach</td>
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</table>

- Digestion
- Egestion
- Excretion
In the table write the letter A beside the name of the part labelled A.

Write the letter B beside the name of the part labelled B.

Write the letter F beside the function of the part labelled B.

The large intestine is labelled C in the diagram. State one function of the large intestine.

What is the function of fibre as part of a balanced diet?
Identify the type of tooth labelled X in the diagram on the right.

Name the mineral needed for healthy growth of teeth.
Digestion of food is important so that we can obtain energy from our food.

Name the parts of the digestive system labelled A, B and C in the diagram.

Name of A

Name of B

Name of C
2006 - Ordinary

Give one function of the part of the digestive system labelled B.

Function of B

__________________________________________

__________________________________________
Salivary amylase found in the mouth acts on starch in the food we eat. This action can be investigated in the laboratory.

Name the chemical used to test for the presence of starch at the beginning of the experiment. ______________________________
When the salivary amylase is added to starch solution and the mixture placed in a water bath at 37 °C for 5 minutes, a new product is formed.

**Name the product formed**

___________________________________

Another **chemical** is used to test for the presence of this **new product**. This chemical reacts with the new product to produce a brick-red colour when they are heated together in a hot water bath for 5 minutes. **Name this chemical.**

___________________________________