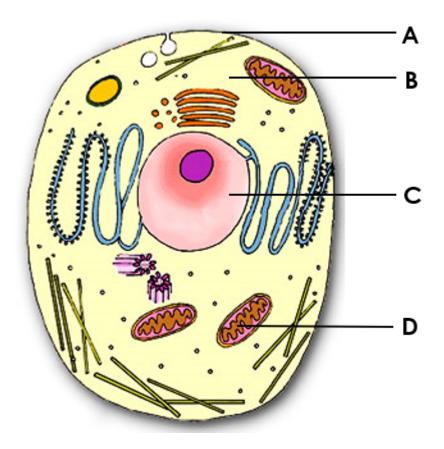
Subject: Grade 9 Natural Sciences	Name:
Topic: Natural Sciences: Exam Term 2	
Total: 98 Marks	Date



Question 1: Please Fill In The Blanks

4 marks

Study the diagram of a cell carefully.

(1) controls what enters or leaves the cell - it is called the (2) .

Possible Answers: A | B | C | D | nucleus | cell membrane

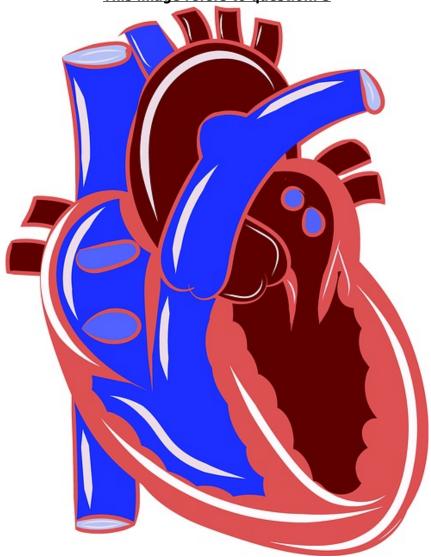
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Question 2: Multiple Choice

4 marks

Study the diagram of a general cell carefully, and identify which of the following labels are incorrect.

- A cell wall
- B cytoplasm
- C nucleus
- D chloroplast
- A A and B
- **B** A and D
- **C** B and C
- **D** C and D



Question 3: Please Fill In The Blanks

4 marks

The Smith family suffers from diseases of the circulatory system. The dad's blood flow to a part of his heart muscle was blocked, so the muscle died due to lack of oxygen and nutrients. He suffered from (1).

The doctor told his son to have his heart checked out in case it is hereditary. What they found was that the son's arteries are coated with a fatty substance, making the arteries very narrow. He now suffers from (2).

Possible Answers: a stroke | a heart attack | high blood pressure | amnesia

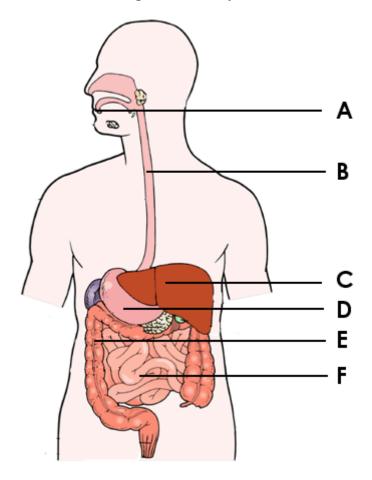
1 2	
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Question 4: Multiple Choice

4 marks

The four main processes of the excretory system include

- **A** | filtration, absorption, diffusion and excretion
- **B** filtration, absorption, digestion and excretion
- **C** locomotion, filtration, digestion and excretion
- **D** breathing, gaseous exchange, respiration and excretion



Question 5: Multiple Choice

Study the diagram carefully.

Where does absorption of nutrients take place?

A B and C
B C and E

C D and F

D D and E

4 marks

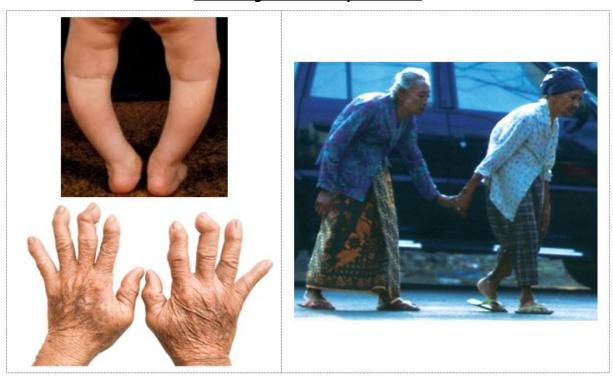
Question 6: Text Input

3 marks

What term is given to the **whole passage along which food passes through** from the mouth to the anus during digestion?

Type only 2 words as your answer.

This image refers to question: 7



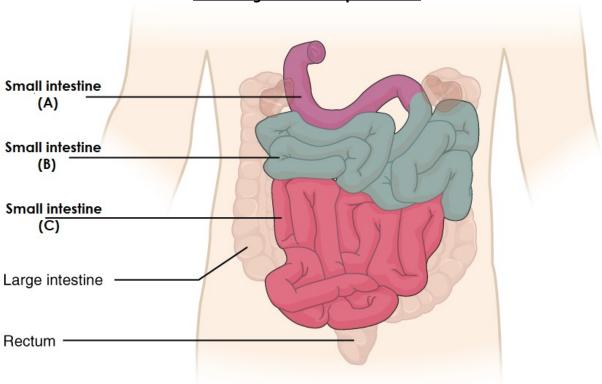
Question 7: True/False

2 marks

These pictures show diseases relating to the circulatory system.

TRUE

FALSE



Oι	estion	8:	Text	In	put
v		•			~~~

3 marks

Give the **names** of the three parts that make up the small intestines, that have been labelled A, B and C in the picture.

Aliswei	er them in order separated by a comma, e.g. A , B , C -	

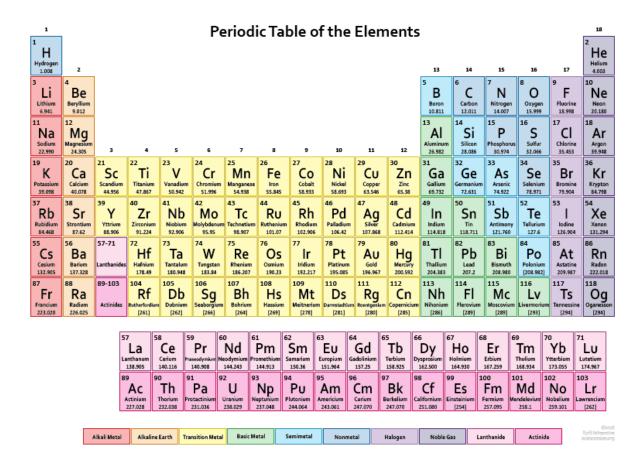
3 marks

Using ONE word only, describe the taste of an acid.

Question 10: Text Input The is the basic unit of all living organisms.	3 marks
Complete the sentence with ONE word.	
Question 11: Please Fill In The Blanks The first process of the digestive sysem takes place in the (1) and this process is called (2) .	4 marks
Possible Answers: stomach mouth ingestion egestion	

2

1



Question 12: Text Input

3 marks

Complete the following information about **phosphorus** on the periodic table:

Phosphorus: group 15, period	d
------------------------------	---

Question 13: Please Fill In The Blanks

4 marks

(1) is usually a rapid reaction that produces (2) .

Possible Answers: Compound | Combustion | heat and smoke | heat and light

1		2	

Question 14: Text Input

3 marks

List the main components of the digestive system in alphabetical order.

Separate the words by using a semi-colon (;).				

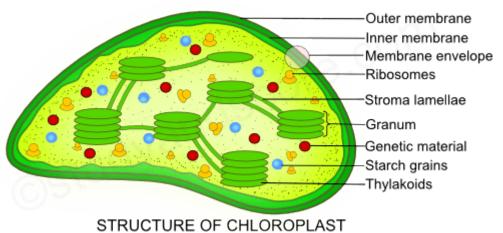
Question 15: Text Input

3 marks

Write a balanced equation for nitrogen oxide reacting with oxygen.

Use --> as your arrow.

This image refers to question: 16



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Question 16: True/False

2 marks

Chlorophyll contains chloroplasts.

TRUE FALSE

Question 17: Multiple Choice

4 marks

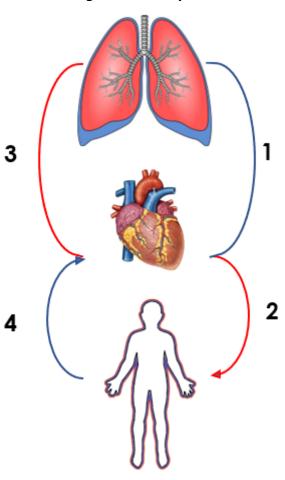
What is the name given to Fe_3O_4 ?

- Α
- **B** iron
- **c** magnetite

rust

D magnet

This image refers to question: 18



Question 18: True/False

2 marks

The blood vessel labelled 1 is an artery transporting oxygenated blood to the heart.

TRUE FALSE

2 marks

All acids are dangerous.

TRUE

FALSE

Question 20: Multiple Choice

4 marks

Which of the following are allotropes of sulphur?

A - orthorhombic

B - monoclinic

C - wood

D - glass

A

B and D

В

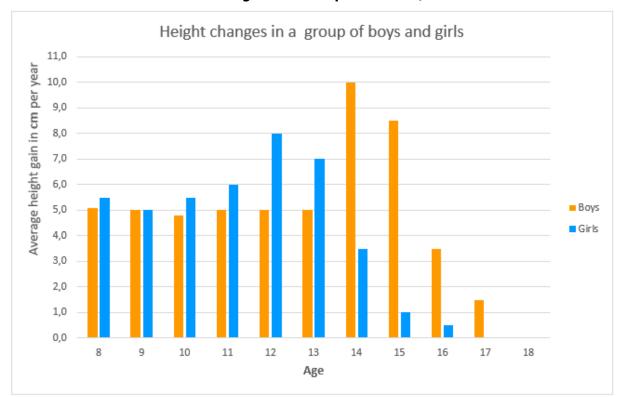
A and C

C

C and D

D

A and B



Question 21: True/False Study the graph carefully.

2 marks

The average height gain for boys is constant between the ages of 11 and 13.

Question 22: Text Input Study the graph carefully.

3 marks

and graph and

At which age is the average height gain the same for both genders?

Type the **number only**.



Question 23: Text Input What percentage of the atmosphere consists of oxygen?				
Give the number only.				
Question 24: Please Fill In The Blanks Balance the following reaction and complete the sentences with the correct answers. Fe + $O_2 \rightarrow Fe_2O_3$				
(1) molecules of iron react with three molecules of oxygen to form (2) molecules of (3).				
Possible Answers: one two three four rust magnetite				
2				
3				
Question 25: Text Input What is the name of the tube that goes from the mouth to the stomach?	3 marks			

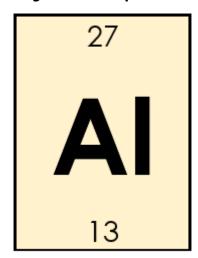


Question 26: Text InputAll living organisms need energy to sustain life.

3 marks

Where does this athlete get his energy from?

Type only **one word** as your answer.



Question 27: Please Fill In The Blanks

4 marks

Study the diagram carefully.

This element is found in Group (1) and another metal in this group is (2) .

Possible Answers: 11 | 12 | 13 | boron | gallium

		2	
--	--	---	--

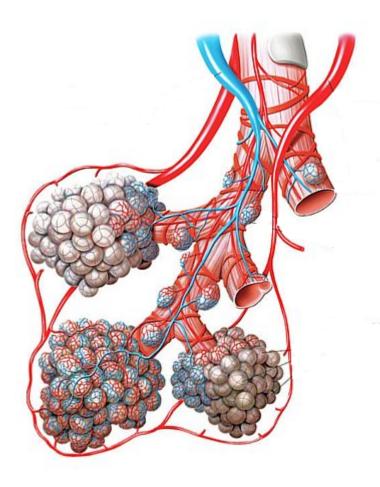
Question 28: True/False

2 marks

Study the picture carefully.

This product is commonly used in the household as foil.

TRUE FALSE



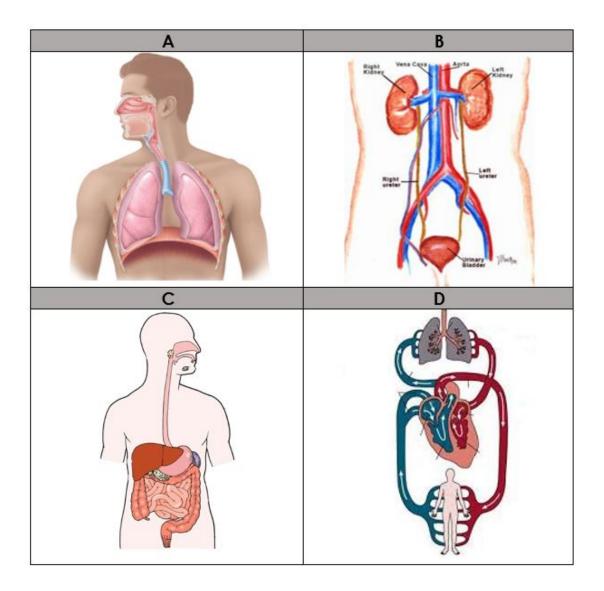
Question 29: Text Input

3 marks

Arteries branch into tiny blood vessels called ... that lie between the cells and are made up of a single layer of cells.

Answer using only one word.						

This image refers to question: 30



Question 30: Multiple Choice

4 marks

Study the diagrams carefully.

Which picture illustrates the respiratory system?

- **A** A
- **B** B
- **c** c
- **D** D

Total: 98 Marks