Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B2 Organisation

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Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Q1.

In a living organism, the cells are organised into organs, systems and tissues.

(a) Use words from the box to complete the list of these structures in order of size.

organs	**systems**	**tissues**

The smallest structure is at the top of the list and the largest is at the bottom.

1 **cells**

2 _____

3 _____

4 _____

5 **organism**

(smallest)



(largest)

(1)

(b) **List A** gives three tissues found in the human body.
List B gives four functions of tissues.

Draw a straight line from each tissue in **List A** to its correct function in **List B**.

List A – Tissue	**List B – Function**
	Covers many parts of the body
Muscular tissue	
	Contracts to cause movement
Glandular tissue	
	Divides by meiosis
Epithelial tissue	
	Releases hormones or enzymes

(3)

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(Total 4 marks)

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Q2.

Obesity is linked to several diseases.

(a) Name **two** diseases linked to obesity.

1. _____

2. _____

(2)

(b) Scientists trialled a new slimming drug.

The table shows their results after one year.

Percentage change in mass of each volunteer	**Number of volunteers**
gained mass or lost 0 to 3.9 %	1900
lost 4.0 to 4.9 %	1100
lost 5.0 to 9.9 %	1500
lost 10 % or more	1500

(i) Calculate the proportion of the volunteers who lost 10 % or more of their mass.

You should first calculate the total number of volunteers, then work out the proportion.

_____

_____

Proportion of volunteers = _____

(2)

(ii) The National Health Service (NHS) gave permission for the drug to be used.

Use information from the table to suggest a reason why the NHS gave permission for the drug to be used.

_____

_____

(1)

(Total 5 marks)

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Q3.

The table shows the mass of carbon dioxide passed into the atmosphere in one year.

	Mass of carbon dioxide passed into the atmosphere in billions of tonnes per year
Animals	45
Plants	15
Microorganisms	60
Human activity	9

(a) (i) Calculate the total mass of carbon dioxide passed into the atmosphere in one year.

_____

_____

Answer = _____ billion tonnes

(1)

(ii) Plants take 120 billion tonnes of carbon dioxide out of the atmosphere per year.

Use your answer to part (a)(i) to calculate the change in the mass of carbon dioxide in the atmosphere in one year.

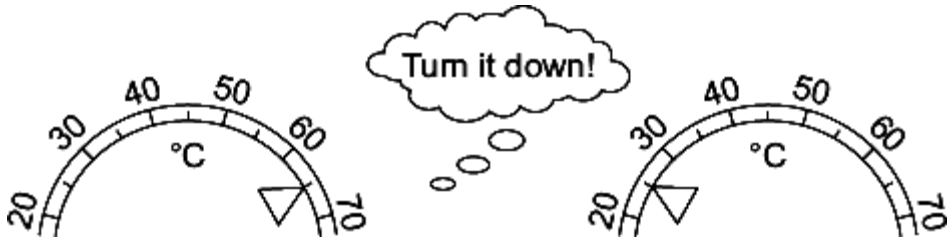
_____

_____

Answer = _____ billion tonnes

(1)

(b) The drawing shows part of a campaign to encourage householders to reduce the temperature of the water used to wash clothes.



Give **two** advantages to the environment of reducing the temperature of the water used to wash clothes.

1. _____

_____

2. _____

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(2)

(c) A householder reduces the temperature of the water he uses to wash clothes.
He finds that some stains are not removed at the new temperature.
He decides to use a biological washing powder.
Biological washing powders contain enzymes.

(i) Draw a line from each enzyme in **List 1** to the type of stain the enzyme will remove, in **List 2**.

List 1 **Enzyme**	**List 2** **Type of Stain**
	Starch
Protease	
	Fat
Lipase	
	Protein

(2)

(ii) The biological washing powder would **not** have removed the stains from clothes if the water had been at 65 °C.

Use **one** word from the box to complete the sentence.

killed	**denatured**	**diffused**

At 65 °C the enzymes would be _____

(1)

(Total 7 marks)

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Q4.

(a) **List A** gives four structures in the human body.

List B gives the functions of some structures in the body.

Draw a straight line from each structure in **List A** to the correct function in **List B**.

List A – Structure	**List B – Function**
	Surround and protect the lungs
Alveoli	
	Filter the blood
Veins	
	Carry blood towards the heart
Villi	
	Absorb digested food
Ribs	
	Allow oxygen to enter the blood

(4)

(b) Draw a ring around the correct answer to complete the sentence.

In the lungs, oxygen enters the blood from the air by

diffusion.

filtration.

respiration.

(1)

(Total 5 marks)

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