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

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Name of the Student:_____
Max. Marks : 19 Marks **Time : 19 Minutes**

Mark Schemes

Q1.

(a) (i) lower – **B** loses less (water / mass) than **C**
or
described in terms of petroleum jelly
*accept converse re Leaf **C***
1

(ii) yes - **B** and **C** lose less than **D or**
B and **C** lose more than **A or**
D loses the most **or**
A loses the least
*do **not** accept just 'all leaves lose some weight'*
1

(b) (i) **X** = stoma
accept stomata / stomatal pore
*do **not** accept air space*
1

Y = guard cell
1

(ii) petroleum jelly blocks stomata / pores
or petroleum jelly prevents water loss
or petroleum jelly waterproofs
*allow pores are blocked in **B***
1

water (mainly) lost via stomata / pores / **X**
or stomata on lower surface only
1

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Q2.

(a) (i) liver

1

(ii) <u>on diagram</u>:

'**X**' on liver

must be unambiguous (eg not overlapping gall bladder)
intersection of X in liver

1

(b) stomach

1

<u>small</u> intestine

accept duodenum or ileum
extra wrong answers cancel the mark,
eg small intestine (colon) = no marks

1

(c) amylase not produced by stomach

accept no starch digesting enzymes in the stomach
accept correct enzyme not in stomach
accept <u>only</u> proteases in stomach
*do **not** accept protease does not digest starch*

1

acid / low / wrong pH in stomach **or** enzyme would be denatured in stomach **or** amylase only works in neutral / alkaline conditions

incorrect extra information cancels mark
*do **not** accept amylase does not work in the stomach*

1

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Q3.

(a) (i) count the pulse **or** count beats in artery in wrist neck **or** feel the pulse **or** take the pulse **or** find the pulse

*accept use of heart monitor **or** heart meter*

1

(ii) 80

2 marks for correct answer

*1f answer incorrect allow **1** mark for showing 8000 divided by 100 **or** indicating cardiac output divided by stroke volume*

2

(iii) Increased activity stroke volume
falls / gets less / should get higher / reach a peak

*accept does not increase **or** changes from 134 cm^3 to 127 cm^3*

1

(iv) 1ncreased / more ventricle contractions

*accept heart beat faster **or** it beats faster **or** more powerful contractions*

1

(b) (stronger heart muscle) increases cardiac output **or** increases stroke volume

*accept pumps more blood (per beat) **or** pumps blood faster*

ignore heart bigger

1

so more (oxygenated) blood can be sent <u>to muscles</u>

accept more oxygen sent to muscles

1

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