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

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Name of the Student:_____
Max. Marks : 24 Marks **Time : 24 Minutes**

Mark Schemes

Q1.

(a) lipase

allow phonetic spelling
allow lipidase

1

(b) (i) fall **then** rise owtte eg down **then** up

*allow faster **then** slower*
ignore explanations

1

minimum / least / fastest / best / optimum at 39–41(°C)

allow it falls to 40(°C)
*if no other marks gained, 'falls to an optimum' gains **1** mark*

1

(ii) (yes)

there is no mark for circling 'yes'
*maximum **1** mark if No is circled*

any **two** from:

- less heat / energy / electricity / power required / used / wasted
  ignore lower temperature
- conserves fuel supplies
  or less fuel used
- less pollution from power stations
  owtte
  accept less global warming
  or
  less CO_2 / carbon emissions / greenhouse gases
  or
  less SO_2 / acid rain
  ***NB** only direct effects*
  less pollution only is not enough

2

(c) any **two** from:

*max **1** mark for reference to cell*

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- enzyme / lipase
  accept any named enzyme
- destroyed / denatured
  allow damaged / broken down
  ***not** 'killed'*
- reference to (specific) shape changed
  ignore detergent / it

2

[7]

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Q2.

(a) **B**

1

(**B** has) low(est) number of stomata
or no stomata on upper surface
or only 800 (on lower surface)

1

less transpiration / evaporation / water loss owtte
or water (vapour) is lost via stomata

only allow zero water loss if linked to no stomata on upper surface / linked to leaf B upper surface

ignore references to leaf surface area

1

(b) reduce loss / amount of water (vapour)

accept converse

or
reduced transpiration (from upper surface)

*do **not** allow no water is lost*

1

warmer above leaf

accept converse

or wilted leaf folds over lower surface

or lower leaf in shade

ignore reference to dust

or less light / heat / sun on lower side

1

[5]

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Q3.

thicker surface

1

reduced surface area

accept fewer alveoli

1

[2]

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Q4.

(a) (i) protease

accept peptidase ***or*** *named protease*
e.g. pepsin / trypsin
allow 'proteinase'

1

(ii) amino acids

accept peptides / polypeptides / peptones

1

(b) points plotted accurately

± $\frac{1}{2}$ *square*

deduct ***1*** *mark per error*

2

best fit curve **or** ruled point-to-point

if double line within $\frac{1}{2}$ *square*
allow sharp apex
do ***not*** *allow single straight line*
if no points line defines points
if (5,0) not plotted only penalise ***1*** *mark*
bar graph wide bars – ***no*** *marks*

bar graph ± $\frac{1}{2}$ *square max* ***2*** *for points*

1

(c) (i) 2 **or** correct from candidate's graph

± $\frac{1}{2}$ *square*

1

(ii) stomach

1

(d) proteins are large / product is small

1

proteins (may be) insoluble / product is soluble

1

cannot be absorbed / cannot enter blood **or** cannot pass through gut lining

accept reverse referring to product

1

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