



EXAM PAPERS PRACTICE

Boost your performance and confidence with these topic-based exam questions

Practice questions created by actual examiners and assessment experts

Detailed mark scheme

Suitable for all boards

Designed to test your ability and thoroughly prepare you

Level: IGCSE Oxford AQA Biology (9201)

Subject: Biology

Topic: IGCSE AQA Biology

Type: Mark Schemes

2002



1583

To be used by all students preparing for IGCSE Oxford AQA Biology (9201)
Students of other Boards may also find this useful

Biology

IGCSE AQA

Key skills



Mark schemes

1.

(a)

Classification group	Name
Class	<i>Mammalia</i>
Order	<i>Primates</i>
Family	<i>Lemuroidea</i>
Species	<i>catta</i>

all 4 correct = 2 marks
2 or 3 correct = 1 mark
0 or 1 correct = 0 marks



- (b) Lemur catta
ignore capitalisation / non-capitalisation of initial letters
ignore italics / non-italics
ignore underlining / non-underlining 1
- (c) carried by (favourable) currents on masses of vegetation
allow description of currents from Figure 2
ignore swimming 1
- (d) isolation of different populations 1
- habitat variation between lemur populations
allow examples – biotic (e.g. food / predators) or abiotic (e.g. temperature) 1
- genetic variation or mutation (in each population) 1
- better adapted survive (reproduce) **and** pass on (favourable) allele(s) to offspring
*allow natural selection **or** survival of the fittest **and** pass on (favourable) allele(s) to offspring*
allow gene(s) / mutation as an alternative to allele(s) 1
- (eventually) cannot produce fertile offspring with other populations
allow cannot reproduce 'successfully' with other populations
ignore cannot reproduce unqualified 1

[9]

2.

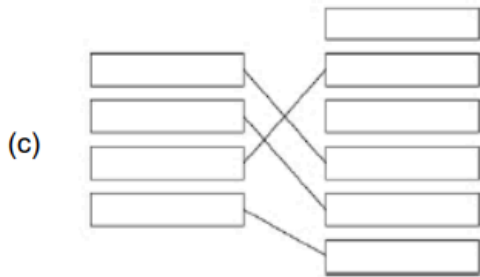
- (a) Carl Linnaeus 1
- (b) Lithops



extras cancel

ignore capitalisation / non-capitalisation

1



1 mark per line

extra line from adaptation negates the mark for that adaptation

1
1
1
1

(d) any **two** from:

- cooler underground / at night
- or**
- the jerboa can keep cool
- loses less water
- or**
- sweats less
- less likely to be seen (by predators / prey)

2

(e) behavioural

1

[9]

3.

(a) (i) variation (in population) / mutation

1

longer nosed individuals get more food / leaves

allow longer nosed individuals more likely to survive

1

(these) survivors breed (more)

1

pass on genes / alleles / DNA (for long nose)

allow pass on mutation

1

(ii) Phiomia / ancestor stretched its nose (during its lifetime) to reach food / leaves

1



passed on (stretched nose) to offspring

allow offspring inherit (stretched nose)

do not allow ref to genes

1

- (b) (i) insufficient evidence / no proof
ignore other theories, eg religion
do not allow no evidence

1

mechanism of inheritance not known
allow genes / DNA not discovered

1

- (ii) God made all living things / them
allow creationism
ignore religion

1

[9]

4.

- (a) fossils show change over time.

1

- (b) covered in sediment / mud or sinks into the mud

1

soft parts decay / are eaten

or

bones / hard parts / shell do not decay

1

minerals enter bones / parts are replaced by minerals / mineralisation

accept turns to rock

allow 'is an impression' / 'imprint' / 'cast'

1

- (c) skin is soft / skin not preserved / not fossilised / skin decays

accept not enough / no evidence / no-one has seen one

allow 'this fossil is only bones'

1



(d) any two examples of:

accept 2 physical factors or 2 biological factors or one of each for

full marks

physical factors such as volcanic activity (allow volcanoes) / earthquakes / asteroid

(collision) / ice age / temperature change

ignore pollution

and / or

biological factors such as predators / disease / named pathogen / competition/ lack of

food / mates / cyclical nature of speciation / isolation / lack of habitat or habitat

Change

if no other answers given allow natural disaster / climate change /

weather change / catastrophic event / environmental change for 1

mark

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2

[7]

5.

(a) (i) natural

1

(ii) simple

1

(iii) three billion

1



(b) any **two** from:

- reference to religion
- insufficient evidence / couldn't prove it / no proof
ignore no evidence
- mechanism of inheritance / variation not known
allow genes / DNA not known about
- reference to other theories
- reference to Darwin's status

(c) (i) tree

- (ii) hippopotamus **and** pig
both required, either order
allow hippo

(iii) new evidence from fossils

2

1

1

1