

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Evolution Answers

Name:

M M E

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Total Marks: /21

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Q1: Explain the term natural selection.

A= Competition of the fittest to survive

(1 mark)

Q2: Who proved the theory of natural selection?

A= Charles Darwin

(1 mark)

Q3: Explain how variations in a species occur.

A= 1 mark for each the following:

- Mutation
- Change to genetic code
- If advantageous passed on to offspring

(3 marks)

Q4: Why is survival of the fittest important to species survival.

A= 1 mark for each of the following:

- Stronger species
- Better suited to environment
- Prevents weak genes being selected

(3 marks)

Q5: What term is given to the gene variants?

A= Alleles

(1 mark)

Q6: Give a reason species may need to adapt.

A= Accept one of the following:

- Change in environment
- New species introduced to habitat

(1 mark)

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Q7: The Canadian oyster population saw a rapid decline in the 1920's due to a virus. Discuss how the species restored its numbers.

A= 1 mark for continuous prose and 5 marks for 5 of the following:

- Mutation against virus
- Only ones with mutation survived – low numbers
- Only mutated were able to breed
- Numbers increase
- Population now carries allele against virus
- Resistant to virus

(6 marks)

Q8: Give an example of species that have changed little since the Jurassic period.

A= Alligators/ Crocodiles

(1 mark)

Q9: What species shows the greatest variance in genetic traits. Circle one.

Dogs

Cats

Sharks

Spiders

Horses

(1 mark)

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Q10: Discuss the changes that have occurred in humans from prehistoric to modern times.

A= Accept any 3 of the following:

- Taller
- Live longer
- Less hair
- Skull shape change
- Stronger

(3 marks)