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90929



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

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Level 1 Biology, 2015

90929 Demonstrate understanding of biological ideas relating to a mammal(s) as a consumer(s)

2.00 p.m. Friday 20 November 2015
Credits: Three

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of biological ideas relating to a mammal(s) as a consumer(s).	Demonstrate in-depth understanding of biological ideas relating to a mammal(s) as a consumer(s).	Demonstrate comprehensive understanding of biological ideas relating to a mammal(s) as a consumer(s).

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–12 in the correct order and that none of these pages is blank.

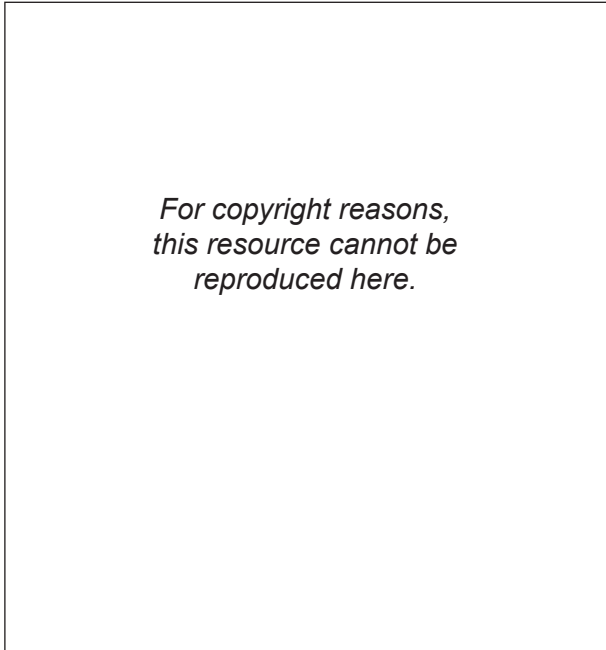
YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL

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QUESTION ONE: TEETH FOR LIFE

The pictures below show the skull of a carnivore and the skull of a herbivore. They have different structures to assist with the digestion of the different types of foods eaten.

Cat skull

<http://illuminationstudios.com/wp-content/uploads/2011/10/catskull.jpg>

Sheep skull

<http://www.cpr-savers.com/assets/images/prodimages/T30018.jpg>

(a) Define the term digestion.

(b) Explain how the teeth and jaws of cats and sheep are adapted to deal with their different types of food.

In your answer you should:

- name the type of digestion that uses the teeth
- explain how each animal's teeth are adapted to suit each animal's typical diet
- compare the teeth and jaw of the cat with the teeth and jaw of the sheep, and explain how and why they are different.

QUESTION TWO: DIGESTIVE SYSTEMS

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[http://www.mirror.co.uk/news/uk-news/
hero-bengal-cat-leo-scares-98886](http://www.mirror.co.uk/news/uk-news/hero-bengal-cat-leo-scares-98886)

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[http://cache2.asset-cache.net/gc/dv1637031-studio-cut-out-of-
a-sheep-gettyimages.jpg?v=1&c=IWSAsset&k=2&d=PbAEhI
rzoCHBv40PPIGN5LT4ISBLbqOzsOGL5AT2frA%3D](http://cache2.asset-cache.net/gc/dv1637031-studio-cut-out-of-a-sheep-gettyimages.jpg?v=1&c=IWSAsset&k=2&d=PbAEhI rzoCHBv40PPIGN5LT4ISBLbqOzsOGL5AT2frA%3D)

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<https://classconnection.s3.amazonaws.com/235/flashcards/2166235/jpg/picture11367354350876.jpg>

Compare and contrast the digestive system of the cat with the digestive system of the sheep.

In your answer you should:

- describe the similarities AND differences in the features of the cat's and sheep's digestive systems
- explain how the different digestive systems are suited to the dietary requirements of a carnivore and a herbivore.

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**Question Three continues
on the following page.**

