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90929M



909295



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

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

SUPERVISOR'S USE ONLY

Koiora, Kaupae 1, 2018

90929M Te whakaatu māramatanga ki ngā ariā koiora e pā ana ki te whāngote hei kaikame

9.30 i te ata Rātū 27 Whiringa-ā-rangi 2018
Whiwhinga: Toru

Paetae	Kaiaka	Kairangi
Te whakaatu māramatanga ki ngā ariā koiora e pā ana ki te whāngote hei kaikame.	Te whakaatu māramatanga hōhonu ki ngā ariā koiora e pā ana ki te whāngote hei kaikame.	Te whakaatu māramatanga matawhānui ki ngā ariā koiora e pā ana ki te whāngote hei kaikame.

Tirohia mēnā e rite ana te Tau Ākongā ā-Motu (NSN) kei runga i tō puka whakauru ki te tau kei runga i tēnei whārangī.

Me whakamātau koe i ngā tūmahi KATOĀ kei roto i tēnei pukapuka.

Mēnā ka hiahia whārangī atu anō koe mō ō tuinga, whakamahia ngā whārangī wātea kei muri o tēnei pukapuka, ka āta tohu ai i te tau tūmahi.

Tirohia mēnā e tika ana te raupapatanga o ngā whārangī 2–19 kei roto i tēnei pukapuka, ka mutu, kāore tētahi o aua whārangī i te takoto kau.

ME HOATU RAWA KOE I TĒNEI PUKAPUKA KI TE KAIWHAKAHAERE Ā TE MUTUNGA O TE WHAKAMĀTAUTAU.

TAPEKE

MĀ TE KAIMĀKA ANAKE

TŪMAHI TUATAHI: NGĀ PŪMUA WHĀKŌKĪ ME TE NAKUNAKU I ROTO I NGĀ KAIOTA, NGĀ KAIKIOTA, ME NGĀ KAIKIKO

Kei roto ngā pūmua whākōkī i te nakunaku o ngā kai i roto i ngā kaiota, ngā kaikiota me ngā kaikiko. Whakamahia te rauemi i raro hei āwhina ki te whakatutuki i ngā mahinga.

Ngā pūnaha nakunaku

Kaiota



[www.mnn.com/earth-matters/animals/stories/
20-things-you-didnt-know-about-cows](http://www.mnn.com/earth-matters/animals/stories/20-things-you-didnt-know-about-cows)

<http://slideplayer.com/>

Kaikiota



[https://blogs.fco.gov.uk/leighturner/2017/05/15/an-encounter-
with-a-viennese-wild-boar-wildschwein/](https://blogs.fco.gov.uk/leighturner/2017/05/15/an-encounter-with-a-viennese-wild-boar-wildschwein/)

<http://slideplayer.com/slide/4687656/>

Kaikiko



<http://globalpetfoodsnb.ca/2015/02/cat-obligate-carnivore/>

[www.123rf.com/photo_46796459_stock-vector-digestive-
system-of-the-cat-medical-veterinary-vector-illustration.html](http://www.123rf.com/photo_46796459_stock-vector-digestive-system-of-the-cat-medical-veterinary-vector-illustration.html)

QUESTION ONE: ENZYMES AND DIGESTION IN HERBIVORES, OMNIVORES, AND CARNIVORES

Enzymes are involved in digestion of food in herbivores, omnivores, and carnivores. Use the resource material below to help you answer the questions.

Digestive systems

Herbivore



[www.mnn.com/earth-matters/animals/stories/
20-things-you-didnt-know-about-cows](http://www.mnn.com/earth-matters/animals/stories/20-things-you-didnt-know-about-cows)

<http://slideplayer.com/>

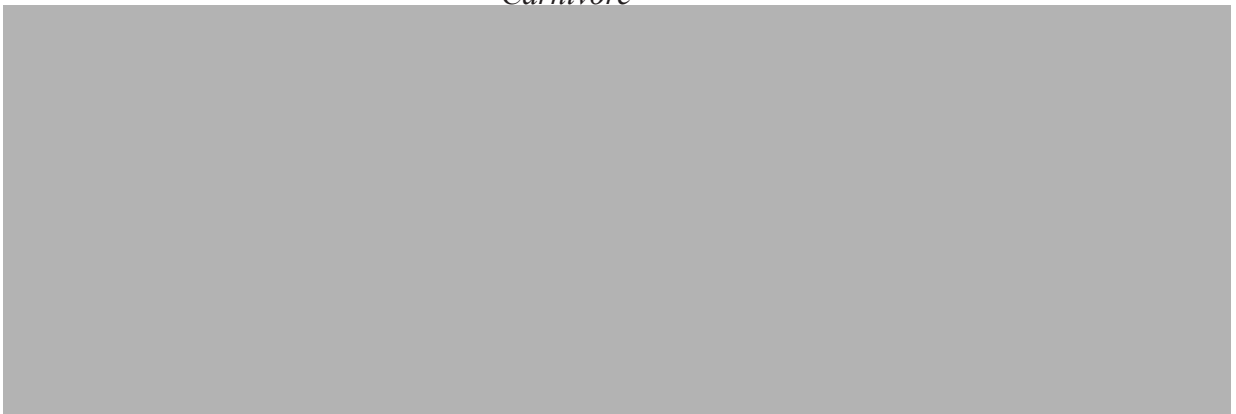
Omnivore



[https://blogs.fco.gov.uk/leighturner/2017/05/15/an-encounter-
with-a-viennese-wild-boar-wildschwein/](https://blogs.fco.gov.uk/leighturner/2017/05/15/an-encounter-with-a-viennese-wild-boar-wildschwein/)

<http://slideplayer.com/slide/4687656/>

Carnivore



<http://globalpetfoodsnb.ca/2015/02/cat-obligate-carnivore/>

[www.123rf.com/photo_46796459_stock-vector-digestive-
system-of-the-cat-medical-veterinary-vector-illustration.html](http://www.123rf.com/photo_46796459_stock-vector-digestive-system-of-the-cat-medical-veterinary-vector-illustration.html)

English translation of the wording on the front cover

Level 1 Biology, 2018

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

9.30 a.m. Tuesday 27 November 2018
Credits: Three

90929M

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 space provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–19 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.