

90179



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

For Supervisor's use only

Level 1 Human Biology, 2008

90179 Describe functioning of the human reproductive system

Credits: Three

2.00 pm Wednesday 19 November 2008

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 answer 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 2–9 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.

<i>For Assessor's use only</i>	Achievement Criteria	
Achievement	Achievement with Merit	Achievement with Excellence
Describe functioning of the human reproductive system. <input type="checkbox"/>	Explain functioning of the human reproductive system. <input type="checkbox"/>	Discuss functioning of the human reproductive system. <input type="checkbox"/>
Overall Level of Performance		<input type="checkbox"/>

You are advised to spend 40 minutes answering the questions in this booklet.

QUESTION ONE

(a) Describe TWO specific changes that happen to the **male reproductive structures** during puberty.

(1) _____

(2) _____

(b) Explain how a named hormone causes puberty to **begin in boys**.

The diagram below shows the male reproductive system.



Adapted from Beckett, *Illustrated Human and Social Biology* (Oxford University Press, 1982), p 110.

(c) On the above diagram **draw** label lines and **name** the:

epididymis

vas deferens (sperm duct)

prostate gland

seminal vesicle.

- (d) Complete the table below to describe the function of the named structures.

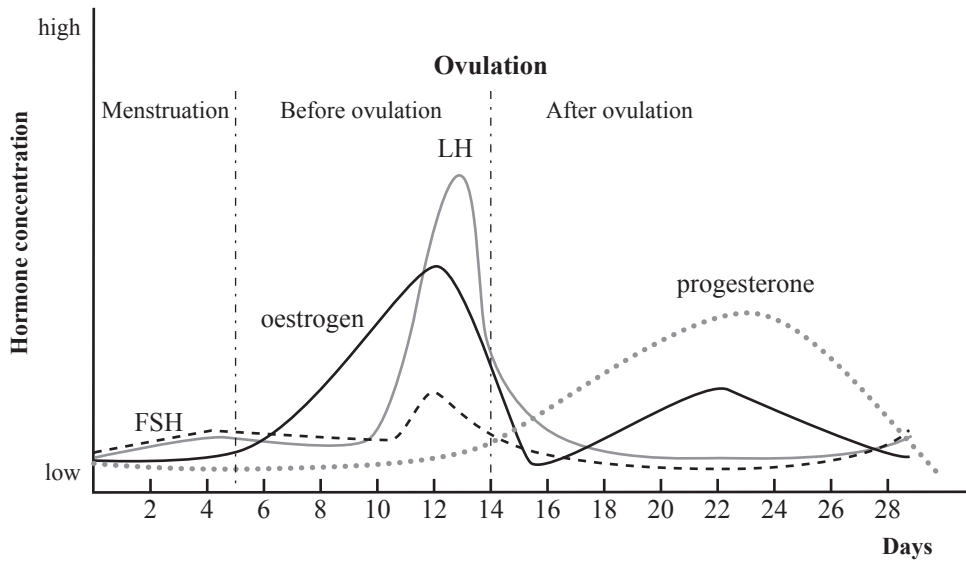
Structure	Function
Epididymis	
Vas deferens (sperm duct)	
Prostate gland	
Seminal vesicle	

- (e) Explain **why** such large numbers of sperm need to be released into the female during intercourse.

QUESTION TWO

- (a) Describe what happens to a fertilised egg between fertilisation and implantation.

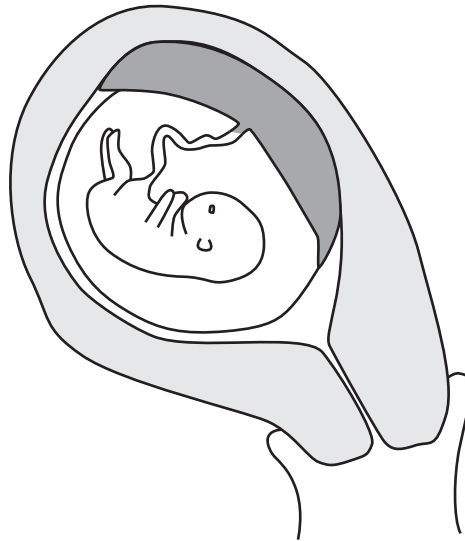
- (b) The graph below shows the changing concentrations of the four female reproductive hormones in the body over one menstrual cycle of 28 days.



Discuss how these four hormones **cause and control** the events that occur in the ovary and uterus during this 28-day menstrual cycle. Use the data in the graph to support your answer.

QUESTION THREE

The diagram below shows an eight-week-old foetus in the uterus.



- (a) On the diagram **draw label lines** and **name** the
 umbilical cord
 placenta
 amnion
 amniotic fluid.
- (b) Complete the table below to describe the function of the named structures.

Structure	Function
Umbilical cord	
Amniotic fluid	
Cervix	

