

Brett Robbins Academic Consulting

Biology 30 Practice Test

Unit B: Reproduction & Development

10 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

Sperm cells are produced in the

- A) Epididymis
- B) Seminiferous tubules
- C) Vas deferens
- D) Prostate gland

Question 2

In humans, fertilization normally takes place in the

- A) Fallopian tube
- B) Uterus
- C) Ovary
- D) Cervix

Question 3

Ovulation is triggered by a sudden surge in the secretion of

- A) FSH
- B) Estrogen
- C) LH
- D) Progesterone

Question 4

The number of chromosomes in a mature human sperm cell is

Question 5

The function of the epididymis is to

- A) Produce testosterone
- B) Add a fructose rich fluid to semen
- C) Produce sperm cells
- D) Store sperm while they mature

Question 6

In oogenesis, one primary oocyte that completes meiosis produces

- A) Four functional ova
- B) One functional ovum
- C) Two functional ova
- D) No functional ova

Question 7

Two days before ovulation, estrogen secreted by a maturing follicle reaches its peak. The direct effect of this estrogen peak is

- A) A surge in LH secretion
- B) A surge in progesterone secretion
- C) Breakdown of the endometrium
- D) Release of oxytocin

Question 8

The main function of the placenta is to

- A) Mix the blood of the mother
and the fetus together
- B) Store food reserves for the
developing fetus
- C) Cushion the fetus and protect
it from shocks
- D) Allow nutrients, gases, and wastes
to diffuse between maternal and fetal blood

Question 9

Some events of early human development are listed below.

- 1 Implantation in the endometrium occurs
- 2 Fertilization forms a zygote
- 3 A hollow blastocyst is formed
- 4 Cleavage produces a solid ball of cells called a morula

The order in which the events occur, from first to last, is

Question 10

After ovulation, one hormone is mainly responsible for maintaining the endometrium so that implantation can occur. This hormone, secreted by the corpus luteum, is

- | | |
|-----------------|-----------------|
| A) FSH | B) LH |
| C) Progesterone | D) Testosterone |

Answer Key

- | | | |
|-------|------|---------|
| 1. B | 5. D | 9. 2431 |
| 2. A | 6. B | 10. C |
| 3. C | 7. A | |
| 4. 23 | 8. D | |

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