NUNAVUT BIOLOGY 30 · UNIT B · 10 QUESTIONS

Reproduction & Development — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Just before ejaculation, the bulbourethral (Cowper's) glands release a small amount of alkaline mucus into the urethra. The purpose of this secretion is to**



A Neutralize traces of acidic urine in the urethra

B Provide fructose as an energy source for sperm

C Trigger the release of sperm from the epididymis

D Stimulate the production of testosterone

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2 **A secondary oocyte released at ovulation does not finish meiosis on its own. It completes the second meiotic division only if fertilization occurs, because until a sperm cell enters it, the secondary oocyte is arrested in**

- **A** Prophase of meiosis I
- **B** Interphase, before any division begins
- **C** Metaphase of meiosis II
- **D** Anaphase of meiosis I

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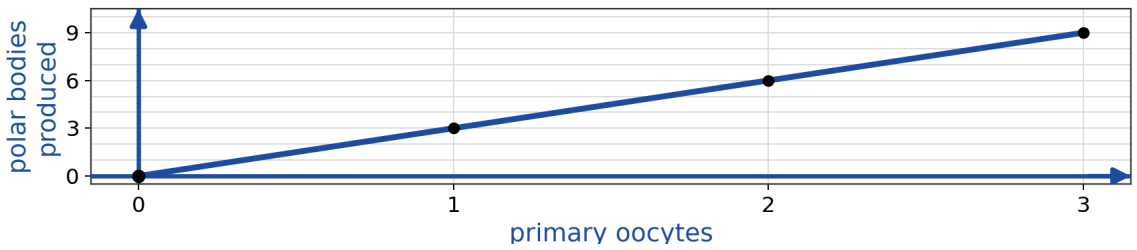
3 **The graph shows the number of polar bodies produced from primary oocytes. How many polar bodies are produced from 2 primary oocytes? Record your answer as a number.**



ANSWER _____

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4 **A woman who drinks alcohol heavily during the first eight weeks of pregnancy exposes the embryo to a teratogen during the period of greatest risk for major structural defects, because during this period**

- A The placenta has not yet begun to filter the blood
- B The major organ systems are being formed
- C The fetus is growing faster than at any other time
- D The embryo is still travelling down the Fallopian tube

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5 **After childbirth, prolactin released from a woman's pituitary gland stimulates the**

- A Contraction of the uterus during labour
- B Release of milk from the mammary glands
- C Restart of the menstrual cycle
- D Production of milk by the mammary glands

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6 **An ectopic pregnancy is a serious condition that occurs when**

- **A** Two ova are fertilized in the same cycle
- **B** The placenta forms across the opening of the cervix
- **C** The blastocyst implants in the Fallopian tube instead of in the uterus
- **D** The zygote fails to begin cleavage after fertilization

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7 **During gastrulation, cells of the early embryo migrate and rearrange themselves. The result of gastrulation is the**

- **A** Formation of the three primary germ layers
- **B** Implantation of the blastocyst in the endometrium
- **C** First beating of the embryonic heart
- **D** Separation of the embryo into identical twins

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8 **The number of umbilical arteries in a normal umbilical cord is**

ANSWER _____

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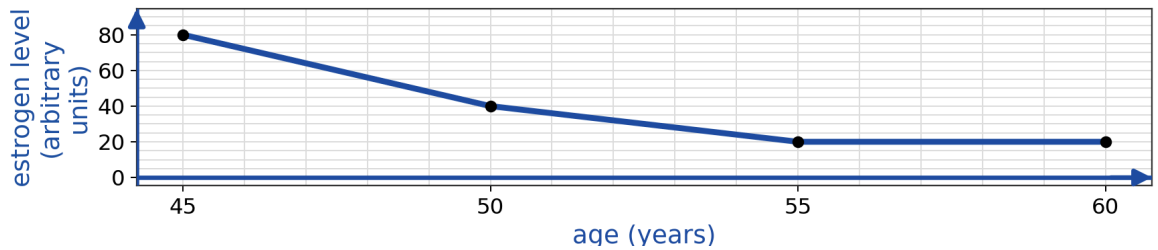
9 **The graph shows estrogen level with age. Between ages 45 and 55, the estrogen level**



A increases

B decreases

C stays the same

D increases, then decreases

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10 **In amniocentesis, a needle is used to remove a small sample of amniotic fluid from around a fetus. The fetal cells found in this fluid are mainly used to**



A Measure the level of hCG in the fluid

B Determine the blood type of the mother

C Test whether the fetal lungs are mature

D Prepare a karyotype that can reveal chromosomal abnormalities in the fetus

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ANSWER KEY

1. A
2. C
3. 6
4. B
5. D
6. C
7. A
8. 2
9. B
10. D

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