

بسم الله الرحمن الرحيم



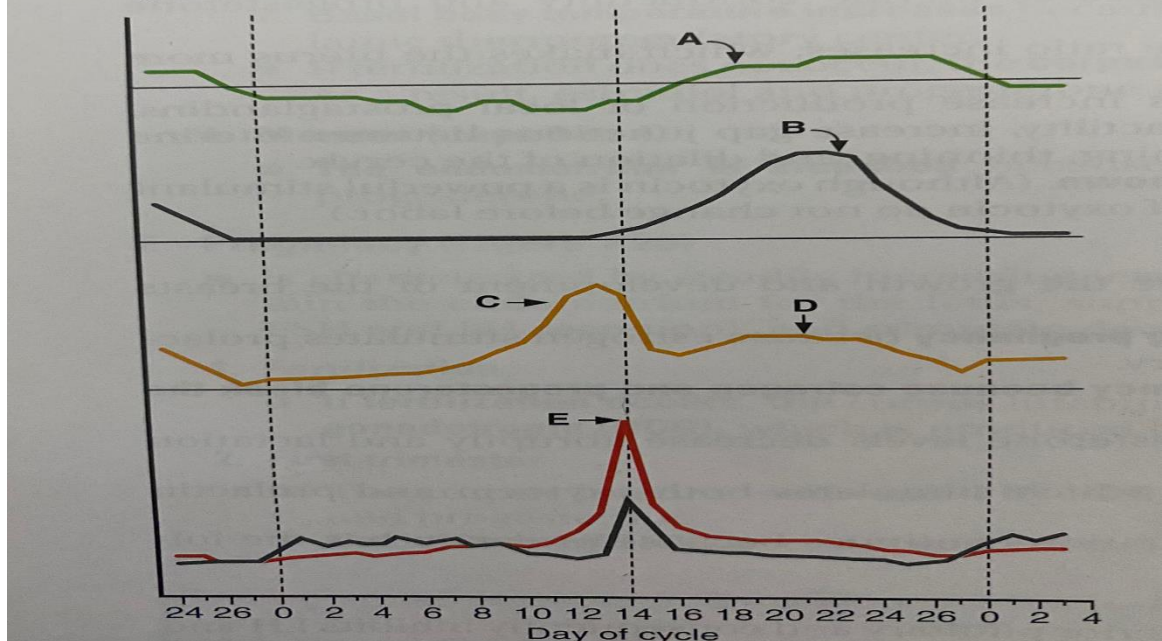
**Test Bank - Source**

**•MID FINAL•**

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### QUESTIONS 1-5

Use the graph below, which shows changes during the menstrual cycle, to answer Questions 1-5.



1. The increase shown at point A is caused by the effect of
  - (A) estrogen on the anterior pituitary
  - (B) progesterone on the hypothalamus
  - (C) follicle-stimulating hormone (FSH) on the ovary
  - (D) luteinizing hormone (LH) on the anterior pituitary
  - (E) prolactin on the ovaryAns:b (curve a show body temp)

2. Blood levels of which substance are described by curve B?

- (A) Estradiol
- (B) Estriol
- (C) Progesterone
- (D) Follicle-stimulating hormone (FSH)
- (E) Luteinizing hormone (LH)

Ans:c

3. The source of the increase in concentration indicated at point C is the

- (A) hypothalamus
- (B) anterior pituitary
- (C) corpus luteum
- (D) ovary
- (E) adrenal cortex

Ans:d (estrogen)

4. The source of the increase in concentration at point D is the

- (A) ovary
- (B) adrenal cortex
- (C) corpus luteum
- (D) hypothalamus
- (E) anterior pituitary

Ans:c

5. The cause of the sudden increase shown at point E is

- (A) negative feedback of progesterone on

the hypothalamus

(B) negative feedback of estrogen on the anterior pituitary

(C) negative feedback of follicle-stimulating hormone (FSH) on the ovary

(D) positive feedback of FSH on the ovary

(E) positive feedback of estrogen on the anterior pituitary

ans:e

10. Which of the following functions of the Sertoli cells mediates negative feedback control of follicle-stimulating hormone (FSH) secretion?

(A) Synthesis of inhibin

(B) Synthesis of testosterone

(C) Aromatization of testosterone

(D) Maintenance of the blood-testes barrier

Asn:a

14. Which of the following explains the suppression of lactation during pregnancy?

(A) Blood prolactin levels are too low for milk production to occur

(B) Human placental lactogen levels are too low for milk production to occur

(C) The fetal adrenal gland does not produce sufficient estriol

(D) Blood levels of estrogen and progesterone are high

(E) The maternal anterior pituitary is

Suppressed

Ans:d

23. The source of estrogen during the second and third trimesters of pregnancy is the

(A) corpus luteum

(B) maternal ovaries

(C) fetal ovaries

(D) placenta

(E) maternal ovaries and fetal adrenal gland

(F) maternal adrenal gland and fetal liver

(G) fetal adrenal gland, fetal liver, and

Placenta

Ans:g

25.

Secretion of oxytocin is increased by

(A) milk ejection

(B) dilation of the cervix

(C) increased prolactin levels

(D) increased extracellular fluid (ECF)

volume

(E) increased serum osmolarity

Ans:b

