

Answers

a. The menstrual cycle:

- Series of events that takes place every month
- Each month an egg matures and is released from the ovary
- It goes along the oviduct to the uterus
- If it is not fertilized the lining of the uterus with the egg is shed/ menstruation takes place
- The cycle starts again.

Control of the cycle:

- Cycle controlled by hormones of the pituitary and ovary
- Oestrogen level increases; repair of uterine wall after menstruation
- Oestrogen and FSH from the pituitary at high levels; maturing of the egg/follicle, ovulation/egg release
- Progesterone from corpus luteum, level increases, uterus wall thickens, blood supply increased
- Fall in progesterone level, menstruation, cycle repeated.

b. (i) if the corpus luteum does not develop:

- The level of progesterone will fall
- The pregnancy will end/the foetus will be aborted because progesterone maintains the lining of the uterus during early pregnancy
OR
- Prevents development of another egg/ovulation and prevents menstruation

(ii) if ovaries are removed:

- Her menstrual cycle would not start
- Puberty would be delayed/she would not develop sexually
- The female sex hormones control development
- Oestrogen controls the other hormones of the cycle