

Subject: Biology

Topic : How do organisms
reproduce? Exam Prep Session 01

Class: X

1. Which of the following hormones play a role during ovulation and menstrual cycle?
 - A. Insulin, glucagon
 - B. FSH, LH, estrogen and Progesterone
 - C. Corticotropins, growth hormone
 - D. Testosterone and progesterone

2. What happens during menopause?
 - A. No menstruation.
 - B. No maturation of new follicles.
 - C. The ovaries stop the secretion of oestrogen
 - A. A and B
 - B. B only
 - C. A, B and C
 - D. C only

3. The time period when the body undergoes changes, leading to reproductive maturity is called _____.
 - A. growth
 - B. adolescence
 - C. development
 - D. marriage

4. Given below are the steps which occur when an egg is not fertilised.
Arrange them in order.

- A) Menstruation occurs.
- B) Endometrium degenerates.
- C) Progesterone production stops.
- D) Corpus luteum degenerates into corpus albicans.

A. D -> C -> B -> A

B. A -> C -> D -> B

C. A -> D -> C -> B

D. A -> B -> C -> D

5. Menses consists of blood and mucousal tissue from the inner lining of _____ along with the _____, which comes out through the vagina.

- A.** fallopian tube, sperms
- B.** fallopian tube, unfertilized egg
- C.** uterus, unfertilized egg
- D.** uterus, zygote

6. The fluid part of semen is contributed by
- Seminal vesicle
 - Prostate
 - Urethra
 - Bulbourethral gland
- A.** I and II
- B.** I, II and IV
- C.** II, III and IV
- D.** I and IV
7. ___ are two hormones produced by ovary which take part in menstrual cycle and maintenance of pregnancy.
- A.** Estrogen and Progesterone
- B.** Testosterone and cortisol
- C.** Insulin and glucagon
- D.** FSH and LH
8. Arrange the following events of the menstrual cycle in correct sequence.
- release of an egg from the ovary
 - breakdown of the thickened inner wall of the uterus
 - thickening of the wall of the uterus
 - maturation of the ovum
- A.** d → a → b → c
- B.** a → b → d → c
- C.** d → a → c → b
- D.** a → c → d → b

9. Given are some events occurring in plant fertilisation.

- A. Pollen grains land on stigma.
- B. Tip of pollen tube breaks and releases the male gametes.
- C. Pollen tube is formed.
- D. Male gamete fuses with the egg.

Choose the option which represents the correct sequence of events?

A. $A \rightarrow B \rightarrow C \rightarrow D$

B. $A \rightarrow C \rightarrow B \rightarrow D$

C. $A \rightarrow D \rightarrow B \rightarrow C$

D. $A \rightarrow D \rightarrow C \rightarrow B$

10. Sexual reproduction is better mode of reproduction because

- A.** Faster mode of reproduction
- B.** off spring have better chances of survival
- C.** are identical to one another
- D.** are bigger in size