

# Embryology

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Al mcq

Lecture 1

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## Lecture 1

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1. Which of the following are true about gametogenesis?

- A. It results in the formation of mature sperm or ovum
- B. It increases the chromosome number from haploid to diploid
- C. It involves nuclear and cytoplasmic changes
- D. It occurs only in females

answers: A, C

2. What are the nuclear changes during gametogenesis?

- A. Formation of acrosome
- B. Reduction from diploid to haploid chromosome number
- C. Chromosomal crossover
- D. DNA replication doubling the genome

answers: B, C

3. Which cytoplasmic changes occur during gametogenesis?

- A. Enlargement of cytoplasm in ova
- B. Loss of cytoplasm in sperm
- C. Division of centrosome in zygote
- D. Development of acrosome in oocyte

answers: A, B

4. Where are mature gametes formed?

- A. Brain
- B. Gonads
- C. Testis
- D. Ovary

answers: B, C, D

5. Which of the following structures are part of the male reproductive system?

- A. Epididymis
- B. Fallopian tube
- C. Vas deferens
- D. Seminal vesicle

answers: A, C, D

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6. What occurs to primary follicles as they mature to secondary follicles?
- (A) Theca interna breaks down into smaller structures
  - (B) Small spaces filled with fluid appear between granulosa cells, forming an antrum
  - (C) Primary oocytes immediately complete meiosis II
  - (D) Granulosa cells undergo apoptosis
- answer:b
7. During which phase does the primary oocyte complete the first meiotic division?
- (A) During the preovulatory phase
  - (B) Just before ovulation
  - (C) After ovulation
  - (D) During the luteal phase
- answer:b
8. What triggers ovulation at the 14th day of the ovarian cycle?
- (A) Progesterone of the anterior pituitary
  - (B) LH of the anterior pituitary
  - (C) FSH of the anterior pituitary
  - (D) Estrogen of the posterior pituitary
- answer:b
9. Under the influence of LH, what transformation occurs in the Graafian Follicle?
- (A) It causes the formation of the zona pellucida
  - (B) Transforming it into corpus luteum that secretes progesterone
  - (C) It results in the formation of numerous tertiary follicles
  - (D) It directly leads to ovulation without further transformation
- answer:b
10. How many layers does the endometrium have?
- (A) One layer: superficial layer
  - (B) Three layers: superficial compact, middle spongy, and a basal layer
  - (C) Two layers: superficial and basal layers
  - (D) Four layers: superficial, middle, basal, and stromal layers
- answer:b