

BYJU'S Study Planner for Board Term I (CBSE Grade 12)

Date: 11/11/2021

Subject: Biology

Topic : Human Reproduction

Class: Standard XII

1. Primary oocyte is formed by which type of cell division?
 - A. Meiosis - I
 - B. Meiosis - II
 - C. Mitosis
 - D. Amitosis
2. Menstrual flow occurs due to lack of:
 - A. LH
 - B. Estrogen
 - C. Progesterone
 - D. FSH
3. Ejaculation of a human male contains 200 - 300 million sperms, of which for normal fertility _____ % sperms should have normal shape and _____ % must show vigorous motility.
 - A. 40, 60
 - B. 70, 30
 - C. 60, 40
 - D. 30, 70

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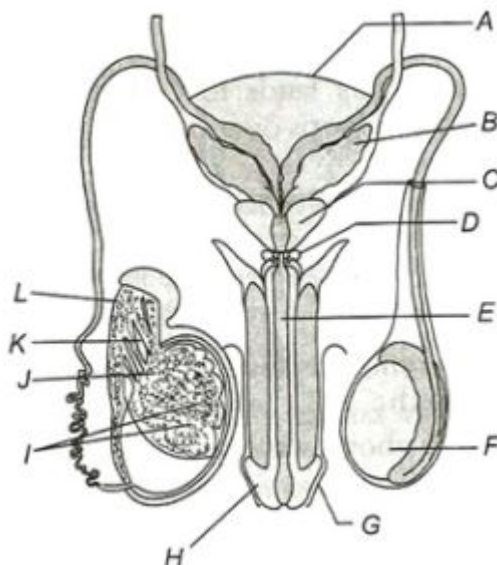
4. Androgen binding protein (ABP) is secreted by which cells?
- A. Sertoli cells
 - B. Leydig cells
 - C. Sperm
 - D. Follicular cell
5. Spermatids are transformed into spermatozoa by which process?
- A. Spermiogenesis
 - B. Spermiation
 - C. Spermatocytosis
 - D. Spermatogenesis
6. Which of the following does not exhibit internal fertilization?
- A. Frog
 - B. Lizard
 - C. Cow
 - D. Crow
7. Extra embryonic membranes of embryo are derived from
- A. follicle cells
 - B. inner cell mass
 - C. formative cell
 - D. trophoblast

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8. The hormone that induces ovulation is produced by_____.
- A.** hypothalamus
 - B.** adenohipophysis
 - C.** ovary
 - D.** neurohipophysis
9. Select the correct option with respect to the hormone and its site of production.
- A.** Progesterone - Graafian follicle
 - B.** Human placental lactogen - Corpus luteum
 - C.** Follicle stimulating hormone - Hypothalamus
 - D.** Human chorionic gonadotropin - Placenta

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10. Identify A, B, C and D in the given diagram.



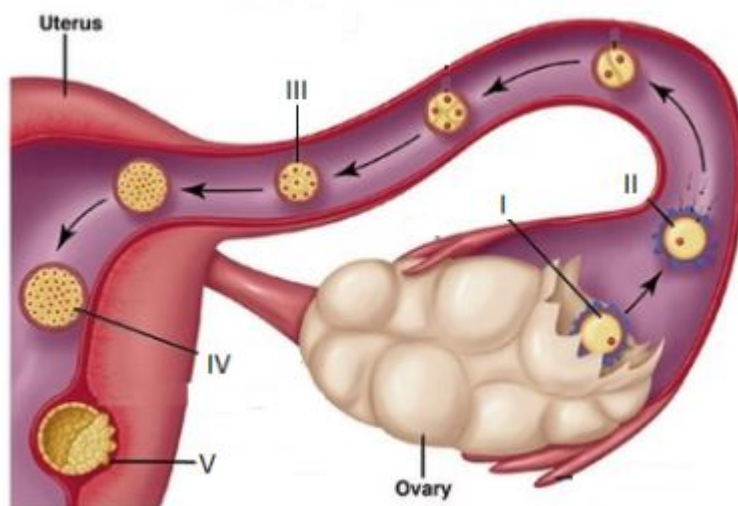
- A.** A-Urinary bladder, B-Bulbourethral gland, C-Prostate gland, D-Seminal vesicles
- B.** A-Urinary bladder, B-Seminal vesicles, C-Prostate gland, D-Bulbourethral gland
- C.** A- Prostate gland, B- Seminal vesicles, C- Urinary bladder, D-Bulbourethral gland
- D.** A- Bulbourethral gland, B- Urinary bladder, C- Seminal vesicles, D-Prostate gland

11. Hormones secreted by the corpus luteum are:

- A.** hCG, hPL, Progesterone, Prolactin
- B.** hCG, hPL, Estrogen, Relaxin, Inhibin
- C.** Progesterone, Estrogen, Relaxin, Inhibin
- D.** LH, Progesterone, Estrogen, Gluco-corticoids

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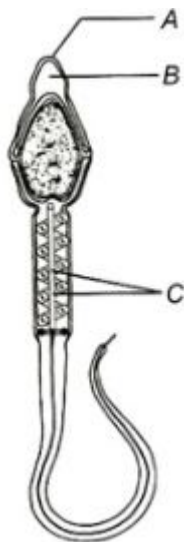
12. The image given below depicts a diagrammatic sectional view of the female reproductive system of humans. Which set of I-V have been correctly identified?



- A.** I - Zygote, II - Ovum, III - Morula, IV - Blastocyst, V - Implantation of blastocyst
- B.** I - Ovum, II - Morula, III - Zygote, IV - Blastocyst, V - Implantation of blastocyst
- C.** I - Ovum, II - Zygote, III - Morula, IV - Blastocyst, V - Implantation of blastocyst
- D.** I - Ovum, II - Zygote, III - Blastocyst, IV - Morula, V - Implantation of blastocyst

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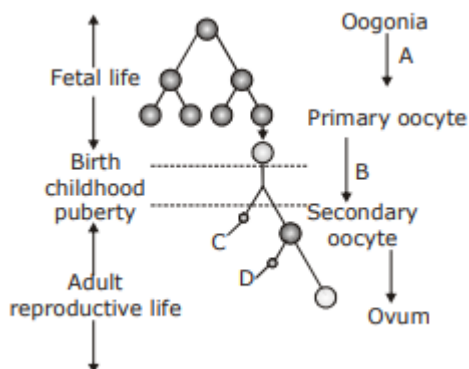
13. Identify A, B and C in the given human sperm diagram.



- A. A-Acrosome, B-Plasma membrane, C-Mitochondria
- B. A-Plasma membrane, B-Acrosome, C-Mitochondria
- C. A- Plasma membrane, B-Mitochondria, C-Acrosome
- D. A-Mitochondria, B-Plasma membrane, C-Acrosome

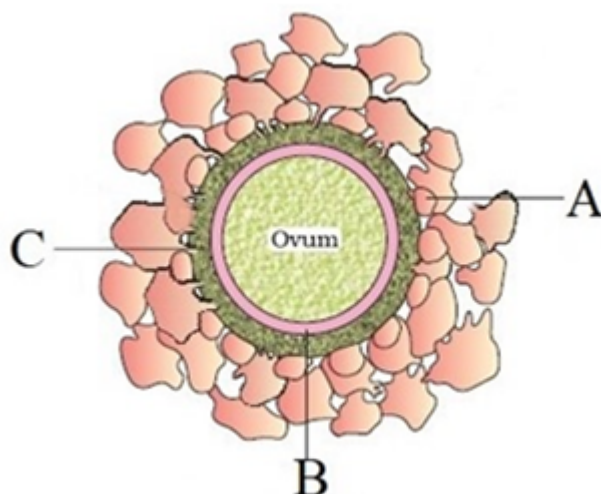
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14. Identify A, B, C and D in the schematic representation of oogenesis.



- A. A-Mitosis and differentiation, B-Meiosis I and II, C-Second polar body, D-First polar body
- B. A-Mitosis, B-Meiosis II, C-Ovum, D-First Polar Body
- C. A-Mitosis and differentiation, B-Meiosis I, C-First polar body, D-second polar body
- D. A-Meiosis I, B-Meiosis II, C- First polar body, D- Second polar body

15. Label the following layers around ovum properly.



- A. A - Zona Pellucida; B - Corona Radiata; C - Perivitelline Space
- B. A - Corona Radiata; B - Zona Pellucida; C - Perivitelline Space
- C. A - Corona Radiata; B - Perivitelline Space; C - Zona Pellucida

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16. Which of the following cells synthesize androgens?

- A. Leydig cells
- B. Sertoli cells
- C. Zona glomerulosa
- D. Myometrium

17. Choose the correct option with respect to the assertion and reason given.

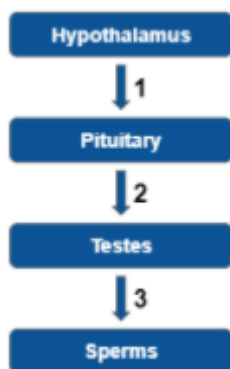
Assertion (A): Not all copulations lead to fertilisation and pregnancy in human beings.

Reason (R): Fertilisation can only occur if the ovum and sperms are transported simultaneously to the ampullary region of the fallopian tube.

- A. [A] is true and [R] is false.
- B. [A] is false and [R] is true .
- C. Both [A] and [R] are true and [R] is a correct explanation to [A].
- D. Both [A] and [R] are true but [R] is not a correct explanation to [A].

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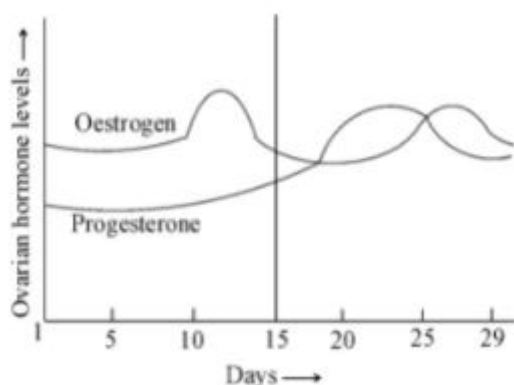
18. Study the image related to spermatogenesis and name the hormones involved at each stage of the following flow chart.



- A. 1 - GnRH, 2 - LH, 3 - FSH
- B. 1 - GnRH, 2 - LH, 3 - Testosterone
- C. 1 - LH, 2 - FSH, 3 - GnRH
- D. 1 - FSH, 2 - LH, 3 - GnRH

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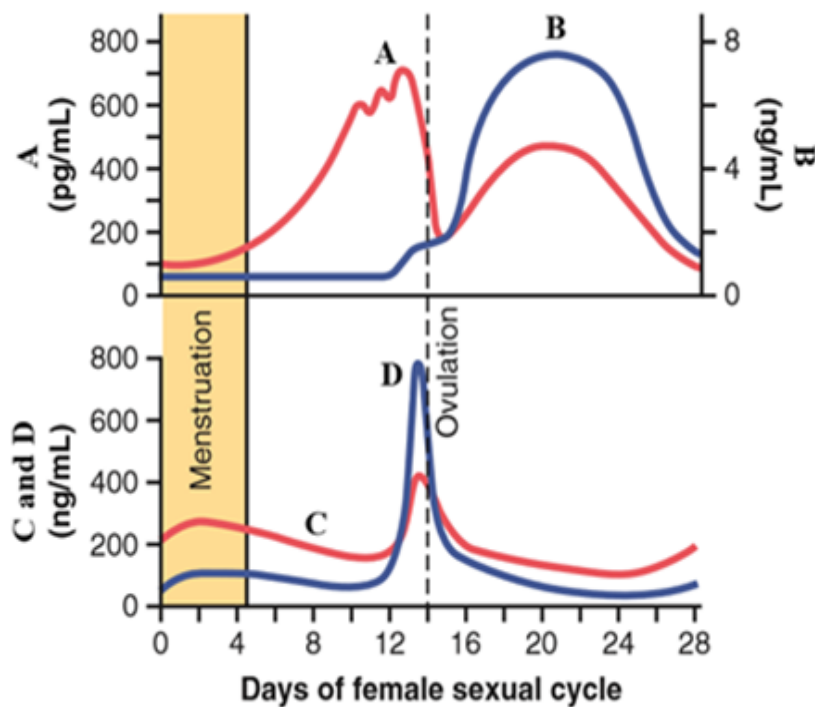
19. Read the graph and correlate the uterine events that takes place according to the hormonal levels on:
- A. 6-15 days
 - B. 16-25 days
 - C. 26-28 days (if the ovum is not fertilized)



- A. A-Degeneration of endometrium, B-Myometrium thickens, becomes vascularized ready to receive and implant embryo, C-Regeneration of endometrium
- B. A-Degeneration of endometrium, B-Endometrium thickens, becomes vascularized, ready to receive and implant embryo, C-Regeneration of endometrium
- C. A-Degeneration of endometrium, B- Endometrium thickness, becomes vascularized, ready to receive and implant embryo, C-Regeneration of endometrium
- D. A-Regeneration of endometrium, B- Endometrium thickens, becomes vascularized ready to receive and implant embryo, C-Degeneration of endometrium

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20. Refer to hormonal levels in menstrual cycle and select the incorrect option accordingly.



- A. B - Hormone responsible for uterine changes
- B. D - Hormone responsible for ovulation
- C. A - Cessation of secretion can lead to Osteoporosis
- D. C - Secreted by Corpus luteum