

Set -1
(Questions 1-30)

1. Which of the following is *not* a function of the testes?

- A. Production of sperm
- B. Secretion of testosterone
- C. Secretion of inhibin
- D. Secretion of estrogen

2. Sertoli cells are responsible for:

- A. Nourishment of developing sperms
- B. Secretion of testosterone
- C. Formation of seminal fluid
- D. Transport of sperms

3. Which hormone directly triggers ovulation?

- A. FSH
- B. LH
- C. Progesterone
- D. Estrogen

4. Match the following:

Column I	Column II
(a) Corpus luteum	(i) Secretes progesterone
(b) Endometrium	(ii) Site of implantation

(c) Epididymis	(iii) Storage of sperm
(d) Seminal vesicle	(iv) Secretes fructose

Choose the correct match:

- A. a-i, b-ii, c-iii, d-iv
- B. a-ii, b-i, c-iv, d-iii
- C. a-iii, b-iv, c-i, d-ii
- D. a-i, b-iii, c-ii, d-iv

5.

Assertion (A): LH surge is essential for ovulation.

Reason (R): LH stimulates rupture of Graafian follicle.

- A. Both A and R are true, and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true, R is false
- D. A is false, R is true

6.

Assertion (A): Progesterone maintains the endometrium during the luteal phase.

Reason (R): Progesterone is secreted by the corpus luteum.

- A. Both A and R are true, and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true, R is false
- D. A is false, R is true

7.

Assertion (A): Menstrual cycle is absent during pregnancy.

Reason (R): High levels of progesterone and estrogen inhibit FSH and LH secretion.

- A. Both A and R are true, and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true, R is false
- D. A is false, R is true

8. Consider the following statements:

1. Fertilization usually occurs in the ampullary-isthmic junction of the fallopian tube.

2. The menstrual cycle is divided into follicular, ovulatory, luteal, and menstrual phases.

3. Estrogen is secreted by Leydig cells.

4. Inhibin regulates FSH secretion.

Which of the above are correct?

- A. 1, 2, and 4
- B. 1 and 3
- C. 2 and 3
- D. 1, 2, 3, and 4

9. Which of the following hormones is *not* secreted by the anterior pituitary?

- A. LH
- B. FSH
- C. Prolactin
- D. Oxytocin

10. The acrosome of sperm is derived from:

- A. Nucleus
- B. Golgi apparatus
- C. Mitochondria
- D. Endoplasmic reticulum

11. Which of the following events occurs *first* during fertilization?

- A. Cortical reaction
- B. Acrosomal reaction
- C. Fusion of sperm and egg nuclei
- D. Completion of second meiotic division

12. Capacitation of sperm occurs in:

- A. Epididymis
- B. Seminal vesicle
- C. Female reproductive tract
- D. Vas deferens

13. The hormone responsible for milk ejection is:

- A. Prolactin
- B. Oxytocin
- C. Estrogen
- D. Progesterone

14. Which layer of the uterus undergoes cyclic changes during the menstrual cycle?

- A. Perimetrium
- B. Myometrium
- C. Endometrium
- D. Basal lamina

15. The zona pellucida is composed mainly of:

- A. Lipids
- B. Glycoproteins
- C. Polysaccharides
- D. Nucleoproteins

16. Which of the following statements about the menstrual cycle is *incorrect*?

- A. LH surge occurs around the 14th day
- B. Ovulation marks the end of the follicular phase
- C. Corpus luteum forms before ovulation
- D. Progesterone peaks during the luteal phase

17.

Assertion (A): FSH stimulates growth of ovarian follicles.

Reason (R): FSH acts on granulosa cells to promote estrogen synthesis.

- A. Both A and R are true, and R explains A
- B. Both A and R are true, but R does not explain A

- C. A is true, R is false
- D. A is false, R is true

18.

Assertion (A): Estrogen causes proliferation of endometrium.

Reason (R): Estrogen is secreted by corpus luteum.

- A. Both A and R are true, and R explains A
- B. Both A and R are true, but R does not explain A
- C. A is true, R is false
- D. A is false, R is true

19.

Assertion (A): Spermatogenesis is inhibited by high temperature.

Reason (R): Testes are located outside the abdominal cavity to maintain lower temperature.

- A. Both A and R are true, and R explains A
- B. Both A and R are true, but R does not explain A
- C. A is true, R is false
- D. A is false, R is true

20.

Assertion (A): Inhibin suppresses FSH secretion.

Reason (R): Inhibin is secreted by Leydig cells.

- A. Both A and R are true, and R explains A
- B. Both A and R are true, but R does not explain A
- C. A is true, R is false
- D. A is false, R is true

21. Identify the correct sequence of events in the menstrual cycle:
1. Follicular growth
 2. Ovulation
 3. Corpus luteum formation
 4. Menstruation
- A. 1 → 2 → 3 → 4
- B. 2 → 1 → 3 → 4
- C. 1 → 3 → 2 → 4
- D. 4 → 1 → 2 → 3
22. Which of the following pairs is correctly matched?
- A. Leydig cells – Nourishment of sperms
- B. Sertoli cells – Secretion of testosterone
- C. Graafian follicle – Secretion of estrogen
- D. Corpus luteum – Secretion of FSH
23. The menstrual cycle is regulated by feedback loops involving:
- A. Hypothalamus, pituitary, and ovaries
- B. Pituitary and adrenal glands
- C. Ovaries and thyroid
- D. Hypothalamus and pancreas
24. The secondary oocyte completes meiosis II:
- A. Before ovulation

- B. After fertilization
- C. During follicular phase
- D. During menstruation

25. Which of the following structures is haploid?

- A. Primary oocyte
- B. Secondary oocyte
- C. Oogonium
- D. Zygote

26. Which of the following hormones peaks just before ovulation?

- A. FSH
- B. LH
- C. Progesterone
- D. Estrogen

27. The menstrual phase corresponds to:

- A. Low levels of estrogen and progesterone
- B. High levels of LH
- C. High levels of FSH
- D. High levels of progesterone

28. The corpus luteum degenerates if:

- A. Fertilization occurs

- B. Implantation occurs
- C. Fertilization fails
- D. Progesterone levels rise

29. Which of the following statements is true regarding spermatogenesis?

- A. Spermatogonia are diploid
- B. Spermatids are diploid
- C. Secondary spermatocytes are diploid
- D. Spermatozoa are diploid

30. The menstrual cycle is absent in:

- A. Post-menopausal women
- B. Pregnant women
- C. Pre-pubertal girls
- D. All of the above

Answers 1–30

- 1. D. Secretion of estrogen
- 2. A. Nourishment of developing sperms
- 3. B. LH
- 4. A. a-i, b-ii, c-iii, d-iv
- 5. A. Both A and R true, R correct explanation
- 6. A. Both A and R true, R correct explanation
- 7. A. Both A and R true, R correct explanation

8. C. Corpus luteum forms before ovulation

9. D. Oxytocin
10. B. Golgi apparatus
11. B. Acrosomal reaction
12. C. Female reproductive tract
13. B. Oxytocin
14. C. Endometrium
15. B. Glycoproteins
16. C. Corpus luteum forms before ovulation
17. A. Both A and R true, R correct explanation
18. C. A true, R false
19. A. Both A and R true, R correct explanation
20. C. A true, R false
21. A. 1 → 2 → 3 → 4
22. C. Graafian follicle – Secretion of estrogen
23. A. Hypothalamus, pituitary, and ovaries
24. B. After fertilization
25. B. Secondary oocyte
26. B. LH
27. A. Low levels of estrogen and progesterone
28. C. Fertilization fails
29. A. Spermatogonia are diploid
30. D. All of the above

Set-2
(Questions 1-30)

1. Which hormone is responsible for the conversion of testosterone to dihydrotestosterone (DHT)?

- A. Aromatase
- B. 5 α -reductase
- C. Inhibin
- D. LH

2. Fertilization in humans usually occurs in:

- A. Infundibulum
- B. Ampulla
- C. Isthmus
- D. Uterine cavity

3. Which of the following cells are diploid?

- A. Spermatogonia
- B. Secondary spermatocytes
- C. Spermatids
- D. Spermatozoa

4. Which hormone is essential for milk production but not for milk ejection?

- A. Oxytocin
- B. Prolactin
- C. Estrogen
- D. Progesterone

5. The acrosomal reaction helps sperm to:

- A. Penetrate zona pellucida
- B. Fuse with oocyte plasma membrane
- C. Undergo capacitation
- D. Complete meiosis

6. Which of the following is *not* part of the female reproductive tract?

- A. Cervix
- B. Fallopian tube
- C. Epididymis
- D. Uterus

7. The hormone that peaks during the luteal phase is:

- A. Estrogen
- B. Progesterone
- C. LH
- D. FSH

8. Which structure stores sperm temporarily?

- A. Vas deferens
- B. Epididymis
- C. Seminal vesicle
- D. Prostate gland

9.

Assertion (A): LH surge is necessary for ovulation.

Reason (R): LH induces rupture of Graafian follicle.

- A. Both A and R true, R explains A

- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

10.

Assertion (A): Progesterone maintains endometrium during pregnancy.

Reason (R): Progesterone is secreted by corpus luteum and later placenta.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

11.

Assertion (A): Spermatogenesis requires lower temperature than body temperature.

Reason (R): Testes are located in scrotum outside abdominal cavity.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

12.

Assertion (A): Inhibin suppresses FSH secretion.

Reason (R): Inhibin is secreted by Sertoli cells.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

13.

Assertion (A): Estrogen causes proliferation of endometrium.

Reason (R): Estrogen is secreted by Graafian follicle.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

14.

Assertion (A): Fertilization triggers completion of meiosis II in oocyte.

Reason (R): Sperm entry stimulates oocyte to complete division.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

15. Which of the following are correct about spermatogenesis?

- 1.Spermatogonia are diploid.
- 2.Secondary spermatocytes are haploid.
- 3.Spermatids are haploid.
- 4.Spermatozoa are diploid.

A. 1, 2, 3

B. 1, 3, 4

C. 2, 3, 4

D. 1, 2, 3, 4

16. Arrange the following in correct sequence:

- 1.Follicular phase

2.Ovulation

3.Luteal phase

4.Menstruation

A. 1 → 2 → 3 → 4

B. 2 → 1 → 3 → 4

C. 1 → 3 → 2 → 4

D. 4 → 1 → 2 → 3

17. Which of the following hormones inhibit FSH secretion?

A. Estrogen

B. Progesterone

C. Inhibin

D. All of the above

18. Which of the following is haploid?

A. Primary oocyte

B. Secondary oocyte

C. Oogonium

D. Zygote

19. The menstrual phase occurs due to:

A. Drop in estrogen and progesterone

B. Rise in LH

C. Rise in FSH

D. Rise in progesterone

20. Which of the following is true about corpus luteum?

A. Forms after ovulation

- B. Secretes progesterone
- C. Degenerates if fertilization fails
- D. All of the above

21. Fertilization usually occurs in:

- A. Ampullary-isthmic junction
- B. Uterus
- C. Cervix
- D. Vagina

22. Which of the following is incorrect about menstrual cycle?

- A. Follicular phase is estrogen-dominant
- B. Luteal phase is progesterone-dominant
- C. Ovulation occurs due to FSH surge
- D. Menstruation occurs due to fall in hormones

23. Which of the following is true about Leydig cells?

- A. Secrete testosterone
- B. Located in seminiferous tubules
- C. Nourish sperms
- D. Secrete inhibin

24. Which of the following is true about Sertoli cells?

- A. Secrete inhibin
- B. Provide nourishment to sperms
- C. Form blood-testis barrier
- D. All of the above

25. Which of the following hormones peaks just before ovulation?

- A. LH
- B. FSH
- C. Progesterone
- D. Prolactin

26. Which of the following is true about human oogenesis?

- A. Primary oocyte is arrested in prophase I
- B. Secondary oocyte is arrested in metaphase II
- C. Meiosis II completes only after fertilization
- D. All of the above

27. Which of the following is true about menstrual cycle regulation?

- A. Controlled by hypothalamus-pituitary-ovarian axis
- B. Involves positive and negative feedback loops
- C. Estrogen and progesterone regulate FSH/LH
- D. All of the above

28. Which of the following is true about fertilization?

- A. Acrosomal reaction helps sperm penetrate zona pellucida
- B. Cortical reaction prevents polyspermy
- C. Fusion of nuclei forms zygote
- D. All of the above

29. Which of the following is absent during pregnancy?

- A. Menstrual cycle
- B. Ovulation
- C. LH surge
- D. All of the above

30. Which of the following is true about menopause?

- A. Permanent cessation of menstrual cycle
- B. Decline in estrogen and progesterone
- C. Occurs due to depletion of ovarian follicles
- D. All of the above

Answers 1–30

- 1. B. 5 α -reductase
- 2. B. Ampulla
- 3. A. Spermatogonia
- 4. B. Prolactin
- 5. A. Penetrate zona pellucida
- 6. C. Epididymis
- 7. B. Progesterone
- 8. B. Epididymis
- 9. A. Both A and R true, R explains A
- 10. A. Both A and R true, R explains A
- 11. A. Both A and R true, R explains A
- 12. A. Both A and R true, R explains A
- 13. A. Both A and R true, R explains A
- 14. A. Both A and R true, R explains A
- 15. A. 1, 2, 3
- 16. A. 1 \rightarrow 2 \rightarrow 3 \rightarrow 4
- 17. D. All of the above

- 18. B. Secondary oocyte**
- 19. A. Drop in estrogen and progesterone**
- 20. D. All of the above**
- 21. A. Ampullary-isthmic junction**
- 22. C. Ovulation occurs due to FSH surge**
- 23. A. Secrete testosterone**
- 24. D. All of the above**
- 25. A. LH**
- 26. D. All of the above**
- 27. D. All of the above**
- 28. D. All of the above**
- 29. D. All of the above**
- 30. D. All of the above**

Set - 3
(1-30)

1. Which hormone is responsible for inhibiting milk secretion after weaning?

- A. Prolactin
- B. Oxytocin
- C. Dopamine
- D. Estrogen

2. The blood-testis barrier is formed by:

- A. Leydig cells
- B. Sertoli cells
- C. Spermatogonia
- D. Epididymal cells

3. Which of the following is haploid?

- A. Primary oocyte
- B. Secondary spermatocyte
- C. Spermatogonia
- D. Oogonium

4. Which hormone is essential for the maintenance of pregnancy in the first trimester?

- A. Estrogen
- B. Progesterone
- C. FSH
- D. LH

5. Which of the following structures degenerates if fertilization does not occur?

- A. Corpus luteum
- B. Graafian follicle
- C. Endometrium
- D. Zona pellucida

6. The hormone responsible for the proliferation of endometrium is:

- A. Progesterone
- B. Estrogen
- C. LH
- D. FSH

7. Which of the following is secreted by placenta?

- A. hCG
- B. Progesterone
- C. Estrogen
- D. All of the above

8. Which of the following is true about spermatogenesis?

- A. Spermatids are haploid
- B. Spermatogonia are diploid
- C. Secondary spermatocytes are haploid
- D. All of the above

9.

Assertion (A): Capacitation of sperm occurs in female reproductive tract.

Reason (R): It increases sperm motility and fertilizing capacity.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

10.

Assertion (A): LH surge is essential for ovulation.

Reason (R): LH stimulates rupture of Graafian follicle.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

11.

Assertion (A): Progesterone peaks during luteal phase.

Reason (R): Progesterone is secreted by corpus luteum.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

12.

Assertion (A): Fertilization triggers completion of meiosis II in oocyte.

Reason (R): Entry of sperm stimulates oocyte division.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

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Assertion (A): Estrogen causes proliferation of endometrium.

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14.

Assertion (A): Inhibin suppresses FSH secretion.

Reason (R): Inhibin is secreted by Sertoli cells.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

15. Which of the following are correct about oogenesis?

- 1.Primary oocyte is arrested in prophase I.
- 2.Secondary oocyte is arrested in metaphase II.
- 3.Meiosis II completes only after fertilization.
- 4.Oogonia are haploid.

A. 1, 2, 3

B. 1, 3, 4

C. 2, 3, 4

D. 1, 2, 3, 4

16. Arrange the following in correct sequence:

- 1.Follicular phase

2.Ovulation

3.Luteal phase

4.Menstruation

A. 1 → 2 → 3 → 4

B. 2 → 1 → 3 → 4

C. 1 → 3 → 2 → 4

D. 4 → 1 → 2 → 3

17. Which of the following hormones inhibit FSH secretion?

A. Estrogen

B. Progesterone

C. Inhibin

D. All of the above

18. Which of the following is true about Leydig cells?

A. Secrete testosterone

B. Located in interstitial tissue

C. Stimulated by LH

D. All of the above

19. Which of the following is true about Sertoli cells?

A. Provide nourishment to sperms

B. Secrete inhibin

C. Form blood-testis barrier

D. All of the above

20. Which of the following is true about menstrual cycle regulation?

A. Controlled by hypothalamus-pituitary-ovarian axis

- B. Involves feedback loops
- C. Estrogen and progesterone regulate FSH/LH
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21. Fertilization usually occurs in:

- A. Ampullary-isthmic junction
- B. Uterus
- C. Cervix
- D. Vagina

22. Which of the following is incorrect about menstrual cycle?

- A. Follicular phase is estrogen-dominant
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- A. Forms after ovulation
- B. Secretes progesterone
- C. Degenerates if fertilization fails
- D. All of the above

24. Which of the following is true about fertilization?

- A. Acrosomal reaction helps sperm penetrate zona pellucida
- B. Cortical reaction prevents polyspermy
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25. Which of the following is absent during pregnancy?

- A. Menstrual cycle
- B. Ovulation
- C. LH surge
- D. All of the above

26. Which of the following is true about menopause?

- A. Permanent cessation of menstrual cycle
- B. Decline in estrogen and progesterone
- C. Occurs due to depletion of ovarian follicles
- D. All of the above

27. Which of the following is true about spermatogenesis?

- A. Spermatogonia are diploid
- B. Secondary spermatocytes are haploid
- C. Spermatids are haploid
- D. All of the above

28. Which of the following is true about hormones during pregnancy?

- A. hCG maintains corpus luteum initially
- B. Placenta secretes estrogen and progesterone later
- C. Progesterone maintains endometrium
- D. All of the above

29. Which of the following is true about ovulation?

- A. Triggered by LH surge
- B. Occurs around day 14 of cycle
- C. Marks end of follicular phase
- D. All of the above

30. Which of the following is true about menstrual phase?

- A. Occurs due to fall in estrogen and progesterone
- B. Endometrium is shed
- C. Lasts 3–5 days
- D. All of the above

Answers 1–30

- 1. C. Dopamine
- 2. B. Sertoli cells
- 3. B. Secondary spermatocyte
- 4. B. Progesterone
- 5. A. Corpus luteum
- 6. B. Estrogen
- 7. D. All of the above
- 8. D. All of the above
- 9. A. Both A and R true, R explains A
- 10. A. Both A and R true, R explains A
- 11. A. Both A and R true, R explains A
- 12. A. Both A and R true, R explains A
- 13. A. Both A and R true, R explains A
- 14. A. Both A and R true, R explains A
- 15. A. 1, 2, 3
- 16. A. 1 → 2 → 3 → 4
- 17. D. All of the above
- 18. D. All of the above

- 19. D. All of the above
- 20. D. All of the above
- 21. A. Ampullary-isthmic junction
- 22. C. Ovulation occurs due to FSH surge
- 23. D. All of the above
- 24. D. All of the above
- 25. D. All of the above
- 26. D. All of the above
- 27. D. All of the above
- 28. D. All of the above
- 29. D. All of the above
- 30. D. All of the above

Set-4
(Questions 1-30)

1. Which hormone prevents degeneration of corpus luteum during early pregnancy?

- A. LH
- B. hCG
- C. FSH
- D. Estrogen

2. Which of the following is *not* secreted by placenta?

- A. hCG
- B. Progesterone
- C. Estrogen
- D. FSH

3. Which of the following is diploid?

- A. Spermatid
- B. Secondary spermatocyte
- C. Primary oocyte
- D. Spermatozoa

4. Which hormone is responsible for milk ejection reflex?

- A. Prolactin
- B. Oxytocin
- C. Estrogen
- D. Progesterone

5. Which of the following occurs during follicular phase?

- A. Corpus luteum formation
 - B. Estrogen secretion by growing follicles
 - C. Progesterone peak
 - D. Menstruation
6. Which of the following is true about Graafian follicle?

- A. Secretes estrogen
- B. Ruptures during ovulation
- C. Converts into corpus luteum
- D. All of the above

7. Which of the following prevents polyspermy?

- A. Acrosomal reaction
- B. Cortical reaction
- C. Capacitation
- D. LH surge

8. Which of the following is true about spermatogenesis?

- A. Spermatogonia are diploid
- B. Secondary spermatocytes are haploid
- C. Spermatids are haploid
- D. All of the above

9.

Assertion (A): Fertilization usually occurs in ampullary-isthmic junction.

Reason (R): This region provides optimal environment for sperm-egg interaction.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A

- C. A true, R false
- D. A false, R true

10.

Assertion (A): LH surge is essential for ovulation.

Reason (R): LH stimulates rupture of Graafian follicle.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

11.

Assertion (A): Progesterone maintains endometrium during luteal phase.

Reason (R): Progesterone is secreted by corpus luteum.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

12.

Assertion (A): Spermatogenesis requires lower temperature.

Reason (R): Testes are located in scrotum outside abdominal cavity.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

13.

Assertion (A): Estrogen causes proliferation of endometrium.

Reason (R): Estrogen is secreted by Graafian follicle.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

14.

Assertion (A): Fertilization triggers completion of meiosis II in oocyte.

Reason (R): Entry of sperm stimulates oocyte division.

- A. Both A and R true, R explains A
- B. Both A and R true, R does not explain A
- C. A true, R false
- D. A false, R true

15. Which of the following are correct about oogenesis?

- 1.Primary oocyte arrested in prophase I
- 2.Secondary oocyte arrested in metaphase II
- 3.Meiosis II completes only after fertilization
- 4.Oogonia are diploid

A. 1, 2, 3, 4

B. 1, 2, 3

C. 2, 3, 4

D. 1, 3, 4

16. Arrange the following in correct sequence:

- 1.Follicular phase
- 2.Ovulation

3. Luteal phase

4. Menstruation

A. 1 → 2 → 3 → 4

B. 2 → 1 → 3 → 4

C. 1 → 3 → 2 → 4

D. 4 → 1 → 2 → 3

17. Which of the following hormones inhibit FSH secretion?

A. Estrogen

B. Progesterone

C. Inhibin

D. All of the above

18. Which of the following is true about Leydig cells?

A. Secrete testosterone

B. Located in interstitial tissue

C. Stimulated by LH

D. All of the above

19. Which of the following is true about Sertoli cells?

A. Provide nourishment to sperms

B. Secrete inhibin

C. Form blood-testis barrier

D. All of the above

20. Which of the following is true about menstrual cycle regulation?

A. Controlled by hypothalamus-pituitary-ovarian axis

B. Involves feedback loops

- C. Estrogen and progesterone regulate FSH/LH
- D. All of the above

21. Which of the following is incorrect about menstrual cycle?

- A. Follicular phase is estrogen-dominant
- B. Luteal phase is progesterone-dominant
- C. Ovulation occurs due to FSH surge
- D. Menstruation occurs due to fall in hormones

22. Which of the following is true about corpus luteum?

- A. Forms after ovulation
- B. Secretes progesterone
- C. Degenerates if fertilization fails
- D. All of the above

23. Which of the following is true about fertilization?

- A. Acrosomal reaction helps sperm penetrate zona pellucida
- B. Cortical reaction prevents polyspermy
- C. Fusion of nuclei forms zygote
- D. All of the above

24. Which of the following is absent during pregnancy?

- A. Menstrual cycle
- B. Ovulation
- C. LH surge
- D. All of the above

25. Which of the following is true about menopause?

- A. Permanent cessation of menstrual cycle

- B. Decline in estrogen and progesterone
- C. Occurs due to depletion of ovarian follicles
- D. All of the above

26. Which of the following is true about spermatogenesis?

- A. Spermatogonia are diploid
- B. Secondary spermatocytes are haploid
- C. Spermatids are haploid
- D. All of the above

27. Which of the following is true about hormones during pregnancy?

- A. hCG maintains corpus luteum initially
- B. Placenta secretes estrogen and progesterone later
- C. Progesterone maintains endometrium
- D. All of the above

28. Which of the following is true about ovulation?

- A. Triggered by LH surge
- B. Occurs around day 14 of cycle
- C. Marks end of follicular phase
- D. All of the above

29. Which of the following is true about menstrual phase?

- A. Occurs due to fall in estrogen and progesterone
- B. Endometrium is shed
- C. Lasts 3–5 days
- D. All of the above

30. Which of the following is true about fertilization events?

- A. Capacitation enhances sperm motility
- B. Acrosomal reaction releases enzymes
- C. Cortical reaction blocks polyspermy
- D. All of the above

Answers 1–30

- 1. B. hCG
- 2. D. FSH
- 3. C. Primary oocyte
- 4. B. Oxytocin
- 5. B. Estrogen secretion by growing follicles
- 6. D. All of the above
- 7. B. Cortical reaction
- 8. D. All of the above
- 9. A. Both A and R true, R explains A
- 10. A. Both A and R true, R explains A
- 11. A. Both A and R true, R explains A
- 12. A. Both A and R true, R explains A
- 13. A. Both A and R true, R explains A
- 14. A. Both A and R true, R explains A
- 15. A. 1, 2, 3, 4
- 16. A. 1 → 2 → 3 → 4
- 17. D. All of the above
- 18. D. All of the above
- 19. D. All of the above

- 20. D. All of the above**
- 21. C. Ovulation occurs due to FSH surge**
- 22. D. All of the above**
- 23. D. All of the above**
- 24. D. All of the above**
- 25. D. All of the above**
- 26. D. All of the above**
- 27. D. All of the above**
- 28. D. All of the above**
- 29. D. All of the above**
- 30. D. All of the above**