



Histology

*level 2
Repro
2023*

MCQs

Ovary & Oviducts

L 3

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MCQ on Ovary & Oviducts

1. Which of the following characterizes primordial follicles:-
 - a) They appear only at the age of puberty
 - b) They found deep in the cortex
 - c) They are surrounded by simple squamous follicular cells
 - d) They have a well-developed theca folliculi
 - e) They contain a large antral cavity
2. A very well developed theca folliculi is found in which of the followings:-
 - a) Corpus albicans
 - b) Graafian follicle
 - c) Multilaminar primary follicle
 - d) Primordial follicle
 - e) Unilaminar primary follicle
3. Which of the following is responsible for direct nutrition of oocyte:-
 - a) Antral fluid
 - b) Cells of theca interna
 - c) Corona radiata
 - d) Cumulus oophorus
 - e) Granulosa cells
4. Which of the following characterizes the medulla of ovary:-
 - a) Contains subcapsular primordial follicles
 - b) Contains numerous and wide blood vessels
 - c) Highly cellular stroma
 - d) Contains developing follicles
 - e) Shows mature graafian follicle
5. Which of the following epithelia lines the oviduct:-
 - a) Pseudostratified columnar epithelium
 - b) Simple columnar with ciliated cells and peg cells
 - c) Simple cuboidal epithelium
 - d) Stratified columnar epithelium
 - e) Transitional epithelium





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- 6. Which of the following ovarian follicles is present since birth:-**
- Graafian follicle
 - Multilaminar primary follicle
 - Primordial follicle
 - Secondary follicle
 - Unilaminar primary follicle
- 7. Regarding mature graafian follicle, choose the false statement:-**
- Pre-ovulatory
 - Primary oocyte completes the first meiosis after ovulation
 - Ovulation process is stimulated by LH
 - Theca interna cells secrete androstenedione
 - Oocyte is surrounded by zone pellucida
- 8. The only follicle present till the age of puberty is:**
- Primordial follicles
 - Unilaminar primary follicles
 - Multilaminar primary follicles
 - Secondary follicles
 - Mature Graafian follicles
- 9. Pre-ovulatory follicles are:**
- Primordial follicles
 - Unilaminar primary follicles
 - Multilaminar primary follicles
 - Secondary follicles
 - Mature Graafian follicles
- 10. Stigma of the ovary is:**
- Firm area of the ovary
 - Area containing primordial follicles
 - Area where mature Graafian follicle burst
 - None of the above
- 11. Ovulation occurs during:**
- Early in the menstrual cycle
 - In mid menstrual cycle
 - Late in menstrual cycle
 - During the last 10 day of menstrual cycle





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12. Peg cells:

- a) Pale cells of fallopian tube
- b) Ciliated columnar cells
- c) Secrete estrogen
- d) Form apical bulge into the lumen

13. Zona pellucida:

- a) Thin membrane surround the oocyte
- b) Formed by oocytes
- c) Formed by follicular cells
- d) Formed by both oocyte and follicular cells

14. Corpus albicans is:

- a) Corpus luteum of pregnancy
- b) Secretory structure
- c) Corpus luteum of menstruation
- d) Persist only for the first half of the menstrual cycle

15. Regarding the lining of the ovary:

- a) Outer mesothelium is simple squamous in young girls
- b) Outer mesothelium is simple cuboidal in adult girls
- c) Outer mesothelium is simple cuboidal in young girls
- d) Outer mesothelium is simple columnar in both young and adult girls

16. All are present in ovarian cortex except:

- a) Ovarian follicles
- b) Corpus luteum
- c) Highly cellular Stroma
- d) Blood vessels

17. First meiotic division of the oocyte is done:

- a) Just before fertilization
- b) Just after fertilization
- c) Just before ovulation
- d) Just after ovulation
- e) Just after corpus luteum formation



**Ovary & Oviducts****18. Regarding corpus luteum:**

- a) Permanent endocrine gland
- b) Theca lutein cells predominate its structure
- c) Granulosa lutein cells peripheral in position
- d) Granulosa lutein predominate its structure
- e) Theca lutein cells central in position

19. Granulosa lutein cells secrete:

- a) HCG
- b) Progesterone
- c) CRH
- d) Prolactin
- e) GH

20. Atretic follicles are:

- a) Predominant follicles
- b) Degenerated follicles
- c) Primary follicles
- d) Released during ovulation

21. The follicular cells that immediately found around the oocyte are:

- a) Corona radiata
- b) Granulosa cells
- c) Cumulus oophorus
- d) Theca interna
- e) Zona pellucida

22. About the ovary which of the following is wrong:-

- a) Covered by germinal epithelium formed of simple squamous or cubical cells
- b) Germinal epithelium shares in the formation of primordial follicles
- c) Covered by dense C.T capsule
- d) Formed of cortex & medulla

23. Regarding the primordial follicles, which of the following is wrong:-

- a) Present in groups close to the medulla of the ovary
- b) These type of follicles are present in the ovary at birth from primordial germ cells of the yolk sac
- c) The commonest type of follicles present in the ovary
- d) They are present under the tunica albuginea





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- 24. Concerning unilaminar primary follicles, all are true except:**
- a) Larger than primordial follicle
 - b) Contain a large primary oocyte
 - c) Have more than one layer of follicular cells
 - d) Follicles cells become cubical
- 25. Concerning growing follicles, one of the following is wrong:**
- a) Lie deep in the cortex
 - b) Formed of primary oocyte with double the size
 - c) Zona pellucida is surrounding it
 - d) They are present just under the tunica albuginea
- 26. Concerning mature Graafian follicle just before ovulation, one of the following is wrong:**
- a) Bulging on the surface of the ovary
 - b) Measures 2 cm in diameter
 - c) Contains a primary oocyte surrounded by zona pellucida
 - d) Surrounded from outside by theca layer
- 27. Concerning the Granulosa cells, all the following are true except:-**
- a) These groups of cells line the cavity of the follicle
 - b) They are polygonal in shape
 - c) They secrete estrogen hormone
 - d) They lie between oocyte & corona radiata
- 28. Concerning corpus luteum, all the following statements are true except:**
- a) Endocrine body that secretes progesterone & some estrogen
 - b) Lives for 3-4 months after pregnancy
 - c) Its granulosa lutein cells are larger than theca lutein cells
 - d) It lives on the surface of the ovary
- 29. About zona pellucida one is wrong:**
- a) It is a glycoprotein in nature
 - b) Is a group of cells line the follicular cavity
 - c) Formed by both oocyte and follicular cells
 - d) It helps to provide nutrition for oocyte





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30. About the corpus luteum, one is wrong:

- a) After ovulation, the theca interna becomes the theca lutein of corpus luteum
- b) After ovulation, the granulosa layer becomes the granulosa lutein of corpus luteum
- c) Granulosa lutein cells represent 80% of corpus luteum
- d) Lasts only for 2 days in menstrual cycle

31. Follicular cells of primordial follicles are:

- a) Simple columnar epithelium
- b) Stratified columnar epithelium
- c) Stratified squamous epithelium
- d) Simple squamous epithelium
- e) Polygonal epithelium

32. All of the followings are true about fallopian tube except:

- a) Its mucosa is formed of simple columnar epithelium
- b) Secretes lipoprotein of nutritive nature
- c) Interwoven muscularis circular & longitudinal bundles
- d) Thin serosa

33. Liquor folliculi is secreted by:-

- a) Theca externa cells
- b) Theca interna cells
- c) Follicular cells
- d) Primary oocyte
- e) Zona pellucida





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Answers

1	C	12	D	23	A
2	B	13	D	24	C
3	C	14	C	25	D
4	B	15	C	26	C
5	B	16	D	27	D
6	C	17	C	28	D
7	B	18	D	29	B
8	A	19	B	30	D
9	E	20	B	31	D
10	C	21	A	32	B
11	B	22	B	33	C

