

MCQ with answers

Male genital system, female genital system, eye and ear:

1- A surge of FSH and LH is induced in the adenohypophysis 24-hours before ovulation and the first meiotic division of the primary oocyte resumes. At what stage does the oocyte become arrested until it becomes fertilized?

- a) First meiotic division, prophase
- b) First meiotic division, metaphase
- c) Second meiotic division, prophase
- d) Second meiotic division, metaphase**
- e) Second meiotic division, anaphase

2- The transition zone between the vagina and cervix is a common site of cervical dysplasia and HPV-related cancer. What epithelial transition is seen here?

- a) Vaginal simple squamous to cervical simple columnar
- b) Vaginal simple columnar to cervical simple squamous
- c) Vaginal simple squamous to cervical stratified columnar
- d) Vaginal stratified squamous to cervical simple columnar**
- e) Vaginal stratified squamous to cervical stratified columnar

3- Which of the following portions of the placenta secretes HCG?

- a) Syncytiotrophoblast**
- b) Cytotrophoblast
- c) Endometrium
- d) Chorion

4- Which of the following components of the fetoplacental (endocrine) unit is similar to thyroid stimulating hormone (TSH) and stimulates T4 secretion by the maternal thyroid?

- a) Human chorionic gonadotropin (hCG)**
- b) Human chorionic somatomammotropin (hCS, hPL)

- c) IGF-I and IGF-II
- d) Endothelial growth factor (EGF)
- e) Relaxin
- f) Leptin

5- Prophase I of the spermatocyte phase lasts approximately:

- a) 2-hours
- b) 24-hours
- c) 2-days
- d) 16-days
- e) 22-days**

6-Which spermatid phase (spermiogenesis) is distinguished by the presence of PAS- positive granules called pro-acrosomal granules?

- a) Golgi phase**
- b) Cap phase
- c) Acrosome phase
- d) Maturation phase

7-A drug is given that affects the initial phases of spermatogenesis to aid in a patient's infertility complaints. How much time would it take for the effects of this drug to be seen?

- a) 4.6-days
- b) 16-days
- c) 22-days
- d) 48-days
- e) 86-days**

8- .The main structures in erectile tissue responsible for maintaining an erection are the:

- a. pacinian corpuscles
- b. peripheral nerves
- c. helicine arteries**

9- A patient comes in having had repeated colds and infections. Problems in his ear are shown to be due to accumulation of fluid in the middle ear.

This is due to a blockage of the:

- a. Saccule
- b. Utricle
- c. External ear
- d. Eustachian tube**
- e. Endolymphatic sac

10- People lacking melanocytes are deaf. These cells function as part of:

- a. Hair cells
- b. modiolus
- c. spiral limbus
- d. stria vascularis**
- e. basalar membrane
- f. vestibular membrane

11- The transmission of sound vibrations through the inner ear occurs chiefly through:

- a. Bone
- b. Nerve fibers
- c. Air
- d. Liquid**
- e. Skin and cartilage

12- Which cells in the seminiferous tubules progress through the first meiotic division?

- a. Sertoli cells

- b. Spermatogonia
- c. Spermatid
- d. primary spermatocyte**
- e. secondary spermatocyte

13- Variations in eye color are determined by the number of pigmented cells in the:

- a. Ciliary epithelium
- b. Iris epithelium
- c. Iris stroma**
- d. Corneal stroma
- e. Corneal epithelium

14- What type of glands are the glands of Moll?

- a. Endocrine gland
- b. Apocrine sweat gland**
- c. Oil gland
- d. Sebaceous glands
- e. Eccrine sweat gland

15- Concerning Muller's cells, all are true except:

- a- They share in the formation of the limiting membranes.
- b- They are nerve cells.**
- c- They have long processes.
- d- Their nuclei are present in the inner nuclear layer.
- e- They are very long cells.