

Male Genital System

1- **The primary sex organ/s of the male reproductive system is/are:**

- a. Penis
- b. Two testes
- c. Accessory genital glands
- d. Male genital glands

2- **Stroma of the testis consists of:**

- a. Leydig cells
- b. Seminiferous tubules
- c. Tunica vaginalis
- d. Exocrine parenchyma

3- **Endocrine parenchyma of the testis consists of:**

- a. Leydig cells
- b. Seminiferous tubules
- c. Tunica vaginalis
- d. Tunica albugenia

4- **Incomplete septa divide the testis into about:**

- a. 750 lobules
- b. 250 lobules
- c. 200 lobules
- d. 300 lobules

5- **Each lobule in the testis has about:**

- a. 10-15 seminiferous tubules
- b. 2-8 seminiferous tubules
- c. 6-10 seminiferous tubules
- d. 1-4 seminiferous tubules

6- **"A highly tortuous compound tubular gland representing the exocrine portion of the testis that produces spermatozoa", this best describes:**

- a. Seminiferous tubules
- b. Vas deferens
- c. Cowper's gland
- d. Male urethra

7- Seminiferous tubules join the rete testis via the:

- a. Epididymis.
- b. Tubuli recti.
- c. Ductuli efferentes.
- d. Ductus deferens.

8- Testosterone is secreted by:

- a. Secondary spermatocyte
- b. Sertoli cells
- c. Leydig cells
- d. Primary spermatocyte

9- Spermatogenesis occurs in the following order:

- a. Spermatocytogenesis - meiosis - spermiogenesis
- b. Spermiogenesis – Spermatocytogenesis – meiosis
- c. Spermiogenesis – mitosis – spermatocytogenesis
- d. Meiosis – Spermatocytogenesis – spermiogenesis

10- Which is the correct order for spermatogenic cell differentiation within the seminiferous tubules?

- a. Round spermatid, elongating spermatid, testicular sperm, spermatocytes, spermatogonia
- b. Spermatocytes, Round spermatid, elongating spermatid, testicular sperm, spermatogonia
- c. Spermatogonia, spermatocytes, round spermatid, elongating spermatid, testicular sperm
- d. Spermatocytes, spermatogonia, elongating spermatid, round spermatid, testicular sperm

11- Type B spermatogonia:

- a. Are germ cells that develop from secondary spermatocytes
- b. Undergo mitotic activity subsequent to sexual maturity
- c. Develop through meiotic divisions
- d. Give rise to secondary spermatocytes

12- Sertoli cells are accurately described by which of the following statements?

- a. Occurs in the epididymis
- b. Occurs after the release of the developing spermatids from the Sertoli cells
- c. Involves the maturation of lysosomal enzymes
- d. Involves mitotic activity
- e. Involves mitotic divisions

13- In the seminiferous tubules, the spermatogonia cells are arranged as:

- a. 4-8 layers
- b. 1-2 layers
- c. 10-15 layers
- d. 2-4 layers

14- Which step occurs first during spermiogenesis?

- a. Maturation phase
- b. Endocrine phase
- c. Acrosomal phase
- d. Golgi phase

15- Testosterone is secreted by:

- a. Spermatogonia
- b. Sertoli cells
- c. Primary spermatocytes
- d. Leydig cells

16- The largest spermatogenic cells:

- a. Spermatids
- b. Primary spermatocytes
- c. Secondary spermatocytes
- d. Type A spermatogonia

17- The acrosome is formed in:

- a. Spermatids
- b. Primary spermatocytes
- c. Secondary spermatocytes
- d. Type A spermatogonia

18- Blood-testis barrier is formed by:

- a. Leydig cells
- b. Sertoli cells
- c. Spermatogonia.
- d. Spermatids.
- e. Spermatocytes

19- Spermiogenesis DOESN'T include:

- a. Meiosis I phase
- b. Maturation phase
- c. Golgi phase
- d. Cap phase
- e. Acrosome phase

20- Which one of the following ISN'T a function of sertoli cells?

- a. Nutritive function
- b. Secretion of androgen-binding protein
- c. Prevention of autoimmune reactions
- d. Formation of acrosomes

21- Spermiogenesis is:

- a. Identical to spermatogenesis
- b. The process that transforms spermarids into mature sperm
- c. A process involving cell division
- d. Involved in shape changes with cell division

22- Spermatozoa (sperms):

- a. Develop in the epididymis
- b. Develop in efferent ductuli
- c. Are stored in the seminal vesicles
- d. Are stored in the epididymis

23- Spermatozoa:

- a. Can travel passively in the seminiferous tubules.
- b. Move actively through the spermatic ducts.
- c. Undergo maturation in the epididymis.
- d. Are stored between ejaculations in the seminal vesicles.

24- **Mature spermatozoon is:**

- a. 5 μm long
- b. 55 μm long
- c. 50 μm long
- d. 65 μm long

25- **“Blood-testis barrier divides seminiferous tubules into 2 compartments, the outer (basal) compartment consists of”:**

- a. Spermatogonia
- b. Primary spermatocytes
- c. Secondary spermatocytes
- d. Spermatids

26- **“The endocrine portion of testis (interstitium of testis), that produces testosterone”, this best describes:**

- a. Sertoli cells
- b. Primary spermatocytes
- c. Leydig cells
- d. Spermatids

27- **Continuous tight junctions between lateral borders of sertoli cells, this refers to:**

- a. BBB
- b. Blood placenta barrier
- c. Blood-testis barrier
- d. Blood-brain barrier

28- **Which piece of mature spermatozoa contains mitochondrial sheath?**

- a. Middle piece of tail
- b. End piece of tail
- c. Principal piece of tail
- d. Neck

29- **Golgi apparatus:**

- a. Elongates to form axoneme
- b. Contains hydrolytic enzymes
- c. Forms a sheath around proximal part of flagellum
- d. Excess part is shed as a residual body

30- Excess is shed as a residual body & phagocytosis by Sertoli cells:

- a. Cytoplasm
- b. Mitochondria
- c. Centrioles
- d. Golgi apparatus

31- Which is the last step in spermiogenesis?

- a. Maturation
- b. Golgi
- c. Acrosomal
- d. Sertoli

32- The epididymis is composed of:

- a. 2-3 tubes
- b. 5 tubes
- c. 6-8 tubes
- d. A single tube

33- Which of the following best describes spermatids?

- a. Meiotic cell division
- b. Cell differentiation of spermatids
- c. Endocytosis
- d. Formation of primary spermatocytes

34- The red arrows are pointing to:

- a. Spermatogonia
- b. Primary spermatocyte
- c. Secondary spermatocyte
- d. Sertoli cells

35- One of intratesticular duct is:

- a. Vas deferens
- b. Epididymis
- c. Rete testis
- d. Male urethra

36- Rete testis is lined with:

- a. Simple columnar epithelium
- b. Stratified columnar epithelium
- c. Pseudostratified columnar epithelium
- d. Simple cuboidal epithelium

37- Distal portion of tubuli recti is lined with:

- a. Simple columnar epithelium
- b. Stratified columnar epithelium
- c. Pseudostratified columnar epithelium
- d. Simple cuboidal epithelium

38- Ductus epididymis:

- a. Is a long highly coiled duct
- b. Is lined with simple columnar bearing stereocilia
- c. Has a folded lumen
- d. Is connected with a seminal vesicle

39- The epididymal duct (ductus epididymis) is lined with:

- a. Stratified columnar epithelium.
- b. Ciliated epithelium.
- c. Epithelium with stereocilia.
- d. Epithelium with goblet cells.

40- The epithelium lining the efferent ductules (ductuli-efferentes) of the epididymis is:

- a. Identical to that of the epididymal duct.
- b. Coated with stereocilia.
- c. A stratified epithelium.
- d. Simple columnar nonciliated, simple columnar ciliated.

41- The vas deferens:

- a. Has only 2 layers in Musculosa
- b. Has a thin muscle wall.
- c. Has an outer serosa.
- d. The epithelium lining is pseudostratified columnar.

42- The ductus deferens can best be identified by:

- a. A smooth bore lumen.
- b. Three separate muscle coats.
- c. Transitional epithelium.
- d. Flattened mucosa.

43- The vas deferens is best identified in cross section by:

- a. Its smooth unfolded luminal margin.
- b. Three well defined thick layers of smooth muscle.
- c. The epithelium is transitional.
- d. Wide lumen.

44- Transitional epithelium is the lining epithelium of:

- a. Membranous urethra
- b. Penile urethra
- c. Prostatic urethra
- d. Spongy urethra

45- Which is the true accurate function of ejaculatory duct?

- a. Transport sperm from vas deferens to urethra
- b. Transport urine from urinary bladder
- c. Transport semen from male genitalia to the outside of the body
- d. Act as a major energy source for sperm

46- Secretions of the seminal vesicles represent about:

- a. 30% of human semen
- b. 50% of human semen
- c. 70% of human semen
- d. 90% of human semen

47- Seminal vesicles AREN'T characterized by:

- a. Envaginations of the ductus deferens.
- b. Basically similar in structure to the ductus deferens.
- c. Usually lined with transitional epithelium.
- d. Usually lined with pseudostratified epithelium.

48- Corpora amylacea may be found in:

- a. Corpora cavernosa in penis
- b. Prostate gland
- c. Ejaculatory duct
- d. Seminal vesicles

49- The portion of the prostate that is the most common site of prostatic carcinoma is the:

- a. Mucosal gland
- b. Transition zone (sub mucosal gland)
- c. Peripheral zone
- d. Central zone

50- Seminal vesicles secrete fluid rich in:

- a. Fructose
- b. Sucrose
- c. Glucose
- d. Fibrinogen

51- The prostate gland:

- a. Secretes hormones.
- b. Secretes alkaline phosphatase.
- c. Contains myoepithelial cells.
- d. Often contains concretions.

52- The prostate gland:

- a. Has a muscular stroma.
- b. Has secretory ducts lined with transitional epithelium.
- c. Opens into the epididymal duct.
- d. Tubuloacinar glands arranged in 2 zones

53- The accessory genital gland whose secretion is responsible for lubricating the urethra is the:

- a. Prostate gland
- b. Bulbourethral glands
- c. Seminal vesicles
- d. Penis

54- “Paired small glands located under the membranous urethra, secretes mucus fluid that lubricate urethra”, this best describes:

- a. Penis
- b. Prostatic gland
- c. Seminal vesicles
- d. Cowper’s gland

55- The male urethra:

- a. Is a paired structure
- b. Originates in the kidneys
- c. Is all lined throughout with transitional epithelium
- d. Passes through the prostate gland

Answers

1.	B	15.	D	29.	B	43.	B
2.	C	16.	B	30.	A	44.	C
3.	A	17.	A	31.	A	45.	A
4.	B	18.	B	32.	D	46.	C
5.	D	19.	A	33.	B	47.	C
6.	A	20.	D	34.	B	48.	B
7.	B	21.	B	35.	C	49.	C
8.	C	22.	D	36.	D	50.	A
9.	A	23.	C	37.	D	51.	D
10.	C	24.	D	38.	A	52.	A
11.	B	25.	A	39.	C	53.	B
12.	C	26.	C	40.	D	54.	D
13.	A	27.	C	41.	D	55.	D
14.	D	28.	A	42.	B		