Recap Reproductive System Chapter 19

1. Gonads are -------- sex organs; Testes in males produce sperms and Ovaries in females produce eggs. Sperms and eggs are ---------, also called sex cells.
2. Male reproductive system consists of a pair of --------, a pair of ducts = vas ---------, ejaculatory duct, urethra, penis and associated glands ---------, -------- gland and bulbourethral glands.
3. Testes are oval bodies lying in --------, a skin pouch. This arrangement keeps the testes about \(-0^\circ\) Celsius cooler than body temperature and is needed to produce viable sperms.
4. Testes produce --------and male hormone --------------.
5. --------------is elongated structure lying posterolateral to testis and caps it. It collects sperms from testes and stores them for maturation (at least 20 days).
6. -------------- moves pelvic cavity and coils around ureter of its side. It receives sperms from Epididymis and joins seminal vesicle duct to form ----------------.
7. Ejaculatory duct then carries the sperms to urethra. Prostate Gland adds its secretion to urethra. Sperms and secretion of glands form semen which is ejaculated through penis during intercourse.
8. Urethra has --------- distinct parts. Prostatic urethra is the part passing through prostate gland. Middle part of urethra is not covered and is Membranous urethra. Urethra enters penis and is termed Penile urethra. Penile urethra opens out at external urethral orifice, which passes out both urine and semen.
9. -------------- produce 60% of semen. It has vitamin C, ----------and prostaglandins.
10. ----------   -------- is a single gland lying below bladder. It produces an alkaline solution which neutralizes acids of vagina.
11. Sperms have acrosome, head, middle piece and tail. -------------- has hydrolytic enzymes to dissolve egg membranes. Head has the sperm nucleus. -------------- has mitochondria and centrioles. Tail is a flagellum for swimming. Sperms enter vagina and swim through uterus to upper parts of ------------------ where fertilization may take place.
12. -------- is the failure of penis to get erect or to remain erect during intercourse. Smoking and drug use increase the chance of impotence. Drugs like -------------- restore temporarily this function.
13. A-------- male cannot produce sperms or enough sperms to ensure fertilization.
14. Female reproductive system consists of a pair of --------, a pair of ------------, a ------, a vagina and external genitalia.
15. Ovaries produce ------ in follicles and secrete --------hormone. Follicles start developing before birth and stay in stage called primary follicles. Follicle Stimulating hormone secreted by anterior pituitary initiates growth and maturation of follicles. Many follicles start maturing but only 1, the largest, releases the secondary oocyte with 1st polar body.
16. Oogonial cell (germinal cell) \(\rightarrow\) -------------- (the cell ready to divide by meiosis) \(\rightarrow\) --------------
----- (has undergone Meiosis-1 and produced 1st polar body).
17. Follicles release female hormones called -------------.
18. -------------- draw egg through ostium by beating cilia. Fertilization takes place in upper --- ------------.

19. -------------- is the pear shaped womb for development of baby. Both fallopian tubes lead to it.
   Uterus has smooth muscle fibers = -------------- and inner glandular and vascular tissue = ------- --------------.
   The neck part of uterus protrudes into vagina and is called -------------. In many women it becomes cancerous and called --------------.
20. -------------- is genital duct used for intercourse and birth. The opening of vagina is partially closed
    by a mucous membrane, ---------. Greater Vestibular glands secrete mucous to lubricate distal vagina.
21. Ovaries have large number of follicles. Under the influence of FSH and LH some follicles start
    developing. Ultimately only one follicle reaches maturity. In most women ovarian cycle is of
    about -------- days. Ovulation is the release of secondary oocyte around --------- day of cycle.
    Ruptured follicle develops into a yellow body = -------------- that secretes hormone --------------

22. Each ovarian cycle, under the influence of Estrogen and Progesterone hormones, uterus
    prepares for development of baby by growing glandular/vascular tissue called --------------.
    If there is no pregnancy -------------- degenerates. Therefore, no progesterone is secreted
    and endometrium is shed off as --------------, a flow of blood and tissue.