UNIT 12 - REPRODUCTIVE SYSTEM

ACTIVITY- Reproductive System Worksheet

Na	ame Period
1.	Describe the two main functions of the reproductive system: a.
	b.
2.	Define: a. Gonads
	b. Gametes
3.	The temperature in the scrotum is about 3 degrees (lower / higher) than normal body temperature. Why?
4.	a. Gametes are (haploid / diploid) and contain chromosomes.b. Number of sperm produced in a normal male per day:c. Life expectancy of sperm once ejaculated:
5.	Testosterone is the principal male hormone. List several functions of testosterone.
6.	Number the structures in the male reproductive system in the order that sperm take from their site of origin to the point where they exit from the body. a. ductus (vas) deferensb. epididymisc. urethrad. ejaculatory ducte. testes

7.	 se pre 	n the accessory male sex glands with their descriptions: eminal vesicles ostate gland ulbourethral (Cowper's) gland
	b. c. d. e.	Single donut shaped gland located inferiorly to the bladder and surrounds the urethra. Provides carbohydrate that is used as an energy source for sperm. Often the site of cancerous cell growth in males. Pea sized glands located underneath the prostate gland. Contributes about 60 percent of seminal fluid. Produces alkaline fluid to allow the sperm to survive in the acidic female reproductive tract. (two answers)
8.	The a The a below	verage amount of semen per ejaculation is average range of number of sperm is/ml. When the count falls/ml, the male is considered infertile.
9.	The	enis consists of three regions. They are:, or foreskin, is a covering over the of the . Surgical removal of the foreskin is known as
10	the si	aber the structures in the female reproductive system in order taken by ova from the of formation to the point of exit from the body. _a. Vagina _b. Uterine (fallopian) tubes _c. Uterus (body) _d. Uterus (cervix) _e. Ovary Thich of the above structures are paired?
11	. What	are the functions of the ovaries?
12	last:	nge in sequence according to chronological appearance, from first to develop to 234 CL. Corpus luteum OF. Ovarian follicle CA. Corpus Albicans VOF. Vesicular ovarian (Graafian) follicle

List three functions of the uterus.

- 1.
- 2
- 3.
- 15. Matching:
 - Vagina
 Clitoris
 Skene's glands
 Vulva
 Mons pubis
 Vaginal orifice
 Labia majora
 Labia minora
 - 5. Perineum
- ____a. The distal end of the vagina that opens into the external environment.
- ____b. A small, cylindrical mass of nervous and erectile tissue.
- ____c. The prominent skin-covered fat pad over the symphysis pubis which, after puberty, becomes covered with hair.
- ____d. Glands embedded in the wall of the urethra that secrete mucus.
- e. Two longitudinal folds of skin on each side of the vaginal opening; covered by pubic hair.
- ____f. Two longitudinal folds of epithelial tissue located within the labia majora; no pubic hair.
- g. The diamond shaped area between the thighs and buttocks.

 h. A general term used to describe the external genitalia of the female.
- ____i. A tubular fibromuscular organ which serves as a passageway for spermatozoa and menstrual flow.

16.	Matching: M. Myometrium E. Endometrium P. Perimetriuma. The outermost layer of the uterusb. The layer that sloughs off during menstruationc. The innermost layer of the uterusd. Makes up the majority of the uteruse. Consists of three layers of smooth muscle fibers.
17.	Here is a list of hormones which influence the female reproductive system:
	Estrogen Follicle-stimulating hormone (FSH) Gonadotropin-releasing hormone (GnRH) Luteinizing hormone (LH) Progesterone Relaxin
	Which hormones are produced by each of these endocrine glands? Hypothalamus: Anterior pituitary: Ovary:
	Now match the hormones listed with the descriptions below.
	_a. Stimulates initial development of the ovarian follicles and secretion of estrogen by the follicles.
	b. Relaxes the pubic symphysis and helps dilate the uterine cervix to facilitate delivery.
	_c. Stimulates the development and maintenance of the female reproductive system and secondary sex characteristics.
	d. Stimulates the release of FSH and LHe. Works with estrogen to prepare the endometrium for implantation of a
	fertilized ovumf. Stimulates further development of the ovarian follicles and brings about ovulation.
18.	Define: Menarche:
19.	Menopause: Define: Impotence:
	Infertility:

Medical Anatomy and Physiology

Which genotype on this chromosome represents female gender?

WORKSHEET - Reproductive System - KEY

- 1. a. Produce offspring (continuation of species)
 - b. Produce and secrete hormones involved in the development and maintenance of the male and female reproductive organs as well as other metabolic and physiologic functions throughout the body
- 2. a. The organs in the body that produce the sex cells; testes and ovaries.
 - b. Sex cells sperm or ova cells.
- 3. lower; for optimal sperm production
- 4. a. haploid; 23
 - b. 300 million
 - c. 48 hours
- 5. Controls growth and development, maintenance of the male sex organs, stimulates bone growth, stimulates protein anabolism, closure of the epiphyseal plate, influences sexual behavior, final maturation of sperm, stimulates development of secondary male sex characteristics.
- 6. testes, epididymis, ductus deferens, ejaculatory duct, urethra,
- 7. a. 2
- d. 3
- b. 1
- e. 1
- c. 2
- f. 1,3
- 8. 2.5 to 5 ml.; 50 to 150 million; 20 million
- 9. root, body, glans penis; prepuce; glans penis; circumcision
- 10. ovary, uterine tubes, uterus (body), uterus (cervix), vagina Paired ovary, uterine tubes
- 11. Produce mature ovum, ovulation, secretion of the sex hormones progesterone, relaxin, inhibin, and the estrogens.
- 12. Ovarian follicle, vesicular (Graafian) follicle, corpus luteum, corpus albicans.
- fallopian; (A) (B) transport the ova from the site of ovulation to the uterus, site
 of fertilization. (C) Pregnancy following implantation at a location other than in
 the body of the uterus.
- 14. (A) Fundus, body, cervix; (B) Site of menstruation, implantation of the fertilized ovum, development of the fetus during pregnancy and labor.

- 15. a. 7
 - b. 2 q. 5

f. 9

- c. 6 h. 4
- d. 3 I. 1
- e. 8
- 16. a. P d. M
 - b. E e. M
 - c. E
- 17. Hypothalamus: GnRH Anterior pituitary: FSH, LH

Ovary: Estrogen, Inhibin, Progesterone, Relaxin

- a. FSH d. GnRH
- b. Relaxin e. Progesterone
- c. Estrogen f. LH
- 18. Menarche: The first menses.

Menopause: The cessation of menses.

- 19. Impotence: inability of a male to attain or hold an erection Male infertility: inability by the male to fertilize a mature ovum
- 20. Amenorrhea: the absence of menstruation.

Dysmenorrhea: difficult or painful menstruation.

Endometriosis: a benign condition characterized by the growth of the

endometrial tissue outside of the uterus.

- 21. Staphylococcus Aureus. Fever like symptoms that if left untreated could possibly lead to death.
- 22. weight gain, skin eruptions, fatigue and lethargy, depression, increased sleep needs, edema, mood swings, headache, anxiety, clumsiness, cravings for sweets or salty food.
- 23. Mitosis = somatic cell division which results in production of identical daughter cells with a diploid number of chromosomes Meiosis = sex cell division which results in the production of gametes with a haploid number of chromosomes
- 24. b,c,a
- 25. Chromosome #23 XY = Male Gender XX = Female Gender