

## Test – Lesson 12 – Genital

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1. Which statements about the testes are correct? (Select all that apply.)

- (A) The testes begin in the abdomen and descend some time before birth into the scrotum.
- (B) Each testis passes through an inguinal ring to reach the scrotum.
- (C) The spermatic cord containing the testes' blood supply also descends through the inguinal ring.
- (D) The reason the testes descend into the scrotum is to lower their temperature.

2. Which statements about the seminiferous tubules are correct? (Select all that apply.)

- (A) The seminiferous tubules lie between the epididymis and the vas deferens.
- (B) Inside the seminiferous tubules is where sperm cells undergo meiosis.
- (C) Sertoli cells inside the seminiferous tubules help sperm cells pack their 46 chromosomes into the nucleus.
- (D) Sperm cells exiting the seminiferous tubules are fully developed to fertilize an ovum.

3. Which statements about the prostate gland are true? (Select all that apply.)

- (A) The prostate gland lies on top of the bladder.
- (B) The urethra passes through the prostate gland.
- (C) The vas deferens joins the ureter to form the urethra.
- (D) Sperm cells inside the urethra are nourished by prostatic fluid and seminal vesicle fluid.

4. Which of the following statements about follicle stimulating hormone are true? (Select all that apply.)

- (A) Follicle stimulating hormone works with luteinizing hormone to prepare a haploid egg for entry into the fallopian tube.
- (B) Follicle stimulating hormone works with rising estrogen levels in the blood to prepare a haploid egg for entry into the fallopian tube.
- (C) Follicle stimulating hormone prepares the endometrium of the uterus to receive a fertilized egg.
- (D) Follicle stimulating hormone helps shed the endometrium if the fertilized egg does not implant in the endometrium of the uterus.

5. Which of the following statements about the placenta are true? (Select all that apply.)

- (A) Inside the placenta, the mother's oxygenated blood is being dumped into a lake of her blood.
- (B) The fetus delivers oxygenated blood through the umbilical artery to the placenta to mix with the mother's lake of oxygenated blood.
- (C) Oxygenated blood in the placenta is returned to the fetus through the fetus's umbilical vein.
- (D) In addition to oxygen from the placenta, the fetus also derives oxygen through the amniotic fluid.

6. Which statements about sperm mitochondria are true? (Select all that apply.)

- (A) The mitochondria in sperm provide the energy for the sperm to penetrate the nuclear membrane inside the ovum.
- (B) The mitochondria in sperm are located inside the head of the sperm.
- (C) The mitochondria in sperm supply the ovum with the complementary half of the DNA needed by the fertilized ovum.
- (D) The mitochondria in sperm do not enter the ovum.