

Human Reproduction Quiz Answer Key PDF

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Describe the stages of fetal development from conception to birth.

1. Germinal Stage (0-2 weeks): Begins at conception when the sperm fertilizes the egg, forming a zygote that undergoes rapid cell division and implantation in the uterine wall. 2. Embryonic Stage (2-8 weeks): Major organs and structures begin to form, including the heart, brain, and limbs, and the embryo is most vulnerable to environmental factors. 3. Fetal Stage (8 weeks to birth): Continued growth and maturation of the organs and systems, with the fetus developing recognizable features and preparing for birth.

What is the primary function of the placenta during pregnancy?

- A. Producing sperm
- B. Facilitating nutrient exchange ✓
- C. Producing eggs
- D. Trigger ovulation

Where does implantation of the fertilized egg occur?

- A. Ovary
- B. Fallopian Tube
- C. Uterus ✓
- D. Cervix

Which of the following are functions of the female reproductive system?

- A. Producing eggs ✓
- B. Nourishing a developing fetus ✓
- C. Producing sperm
- D. Facilitating childbirth ✓



Which phase of the menstrual	cycle is characterized b	y the shedding	g of the uterine lir	ing?

- A. Follicular Phase
- B. Ovulation
- C. Luteal Phase
- D. Menstrual Phase ✓

Which genetic disorder is caused by an extra chromosome 21?

- A. Turner Syndrome
- B. Klinefelter Syndrome
- C. Down Syndrome ✓
- D. Cystic Fibrosis

Which hormones are involved in the regulation of the menstrual cycle?

- A. Estrogen ✓
- B. Testosterone
- C. Progesterone ✓
- D. Luteinizing Hormone (LH) ✓

Which structure in the female reproductive system releases the egg during ovulation?

- A. Uterus
- B. Ovary ✓
- C. Fallopian Tube
- D. Cervix

What are the potential causes and treatments for infertility in both males and females?

Potential causes of infertility in females include ovulatory disorders, age-related factors, and structural issues like blocked fallopian tubes, while in males, causes may include low sperm count, hormonal imbalances, or anatomical problems. Treatments can range from medication and hormone therapy to assisted reproductive technologies such as IVF or lifestyle modifications.

Which of the following are common sexually transmitted infections (STIs)?



- A. Chlamydia ✓
- B. Influenza
- C. Gonorrhea ✓
- D. Syphilis ✓

Explain the process of spermatogenesis and its significance in male reproduction.

Spermatogenesis occurs in the seminiferous tubules of the testes and involves the transformation of spermatogonia into mature spermatozoa through several stages: mitotic division of spermatogonia, meiotic division to form spermatids, and the maturation of spermatids into spermatozoa. This process is significant as it produces millions of sperm daily, contributing to genetic diversity and the ability to fertilize an ovum, thus playing a vital role in reproduction.

Explain the role of genetic inheritance in determining the traits of offspring.

Genetic inheritance determines the traits of offspring through the transmission of genes from parents, where the combination of alleles inherited influences various characteristics.

What is the primary function of the testes in the male reproductive system?

- A. Producing sperm ✓
- B. Storing sperm
- C. Producing seminal fluid
- D. Transportating sperm

Which hormone triggers ovulation in the female reproductive cycle?

- A. Estrogen
- B. Progesterone
- C. Luteinizing Hormone (LH) ✓
- D. Follicule Stimulating Hormone (FSH)

Which of the following are functions of the placenta?

- A. Nutrient exchange ✓
- B. Hormone production ✓
- C. Oxygen supply ✓

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D. Waste removal ✓

Discuss the ethical considerations surrounding the use of assisted reproductive technologies.

Key ethical considerations include ensuring informed consent from all parties, addressing the potential for exploitation of vulnerable individuals, the moral implications of genetic selection and designer babies, and the psychological effects on donors, parents, and children born through ART.

Which	of the	following	are par	ts of the	male re	productive	system?
******	OI LIIC	ionowing	are par	to or the	maic ic	productive	System:

- A. Testes ✓
- B. Ovaries
- C. Vas deferens ✓
- D. Prostate gland ✓

Describe the hormonal changes that occur during the menstrual cycle and their effects on the female reproductive system.

During the menstrual cycle, the hypothalamus releases gonadotropin-releasing hormone (GnRH), stimulating the pituitary gland to secrete folliclestimulating hormone (FSH) and luteinizing hormone (LH). FSH promotes the growth of ovarian follicles, leading to increased estrogen production, which thickens the uterine lining. A surge in LH triggers ovulation, and after ovulation, the ruptured follicule transforms into the corpus luteum, producing progesterone. If fertilization does not occur, progesterone levels drop, leading to menstruation.

What is the role of the prostate gland in the male reproductive system?

- A. Producing sperm
- B. Producing testosterone
- C. Producing seminal fluid ✓
- D. Storing sperm

Which of the following are considered assisted reproductive technologies?

- A. In Vitro Fertilization (IVF) ✓
- B. Surrogacy ✓
- C. Natural conception



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D. Artificial Insemination ✓