

Embryology Quiz PDF

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Which germ layer gives rise to the central nervous system?

- Ectoderm
- Mesoderm
- Endoderm
- trophoblast

Who is known for discovering the mammalian egg?

- Aristotle
- Karl Ernst von Baer
- Hans Spemann
- Gregor Mendel

Explain the significance of the neural tube in embryonic development.

Describe the process of implantation and its importance in pregnancy.

Discuss the role of teratogens in embryonic development and provide examples.

What are the main differences between spermatogenesis and oogenesis?

How does comparative embryology provide insights into evolutionary biology?

Outline the ethical concerns associated with the use of embryonic stem cells in research.

Which structures are part of the placenta? (Select all that apply)

- Chorionic villi
- Amniotic sac
- Umbilical cord
- Yolk sac

Which processes are involved in fertilization? (Select all that apply)

- Capacitation
- Acrosome reaction
- Mitosis
- Cortical reaction

What is the term for the movement of cells to form the three primary germ layers?

- Fertilization
- Implantation
- Gastrulation
- Cleavage

Which process involves the rapid cell division of the zygote without growth?

- Neurulation
- Cleavage
- Gastrulation
- Organogenesis

What is the primary function of the placenta?

- Produce gametes
- Facilitate nutrient and gas exchange
- Protect the embryo from infections

- Initiate labor

Which germ layers are formed during gastrulation? (Select all that apply)

- Ectoderm
 Mesoderm
 Endoderm
 Epidermis

Which of the following is a known teratogen?

- Vitamin C
 Alcohol
 Water
 Oxygen

Which of the following are stages of early embryonic development? (Select all that apply)

- Zygote
 Blastula
 Neurula
 Gastrula

Where does fertilization typically occur in the human body?

- Uterus
 Ovaries
 Fallopian tubes
 Cervix

Which of the following are ethical considerations in embryonic research? (Select all that apply)

- Use of embryonic stem cells
 Genetic modification
 In vitro fertilization
 Cloning

Which stage of embryonic development immediately follows fertilization?

- Blastula

- Zygote
- Gastrula
- Fetus

Which systems develop during organogenesis? (Select all that apply)

- Cardiovascular
- Respiratory
- Digestiv
- Endocrine