

Implantation is the act of firmly setting in. In particular, it is when the fertilized egg is attached to the lining of the uterus firmly, which usually takes place nearly 6 or 7 days after fertilization while gastrulation is the process wherein the embryo transforms from blastula to a gastrula with multiple cell layers during embryonic development.

**1. Which of the following organ is formed during gastrulation?**

- (a) Gill
- (b) Vitelline membrane
- (c) Heart
- (d) Archenteron

**Answer: (d)**

**2. Mesoderm gives rise to all the structures except \_\_\_\_\_.**

- (a) Gonads
- (b) Circulatory system
- (c) Nervous system
- (d) Muscular system

**Answer: (c)**

**3. In human females, the fertilized eggs get implanted in the uterus after \_\_\_\_\_.**

- (a) One month of fertilization
- (b) Two months of fertilization
- (c) Seven days of fertilization
- (d) Three weeks of fertilization

**Answer: (c)**

**4. Brain, nerve cells and spinal cord or the central nervous system develops from embryonic \_\_\_\_\_.**

- (a) Mesoderm
- (b) Endoderm
- (c) Ectoderm
- (d) Both (b) and (c)

**Answer: (c)**

**5. Which of the following options contains only the mesodermal structures?**

- (a) Heart, blood, bones, notochord
- (b) Heart, blood, muscles, liver
- (c) Notochord, blood, liver, muscles
- (d) Liver, heart, bones, blood

**Answer: (a)**

**6. Implantation is the process of\_\_\_\_\_.**

- (a) Attachment of blastocyst to the uterine wall
- (b) Egg movement
- (c) Degeneration of egg
- (d) Egg fertilization

**Answer: (a)**

**7. Which of the following embryo has a parasitic mode of nutrition?**

- (a) Mammalian embryo
- (b) Bird's embryo
- (c) Amphibian embryo
- (d) Reptilian embryo

**Answer: (a)**

**8. which of the following events is likely to take place, if the nuclei from an 8-celled stage of an embryo are transplanted into enucleated eggs?**

- (a) Recipient egg dies
- (b) Donor nuclei die in the new environment
- (c) Cleavage occurs but is arrested after some time
- (d) Formation of the viable embryo in the recipient eggs

**Answer: (d)**

**9. Egg implantation is followed by\_\_\_\_\_.**

- (a) Parturition
- (b) Copulation
- (c) Fertilization
- (d) Gestation

**Answer: (d)**

**10. Pseudopregnancy is a physiological condition, comparable to normal pregnancy except that there is no\_\_\_\_\_.**

- (a) endometrial changes
- (b) developing foetus
- (c) corpus luteum
- (d) developing ovum

**Answer: (b)**