



Final examination of first semester 2016-2017

Q1: Choose the correct answer for each sentences below : (ten only) (10 M.)

1. Stage before entry of sperm into egg is called
a) Insemination b) Maturation c) Capacitation d) Fertilization
2. At which stage implantation occurs in human females?
a) Morula b) Zygote c) Blastocyst d) Gastrula
3. Villi of human placenta arise from
a) Allantois b) Yolk sack c) Chorion d) Both chorion and allantois
4. Which of the following acts as a respiratory organ in mammalian embryo
a) Amnion b) Placenta c) Lung d) Pharyngeal gills.
5. The function of hyaluronidase is
a) To form cone of reception in egg b) To Puncture the vitelline membrane of egg
c) It is not produced in human sperm d) None of the above.
6. Capacitation is a) Early cleavage for determining different parts b) Developing, ability of sperm to penetrate egg c) Developing ability of egg to receive sperm d) All the above
7. Sperms of an animal 'A' cannot fertilize the ovum of the other species 'B' because
a) Antifertilizin of A and B are not compatible b) Antifertilizin of A and fertilizin of B are not compatible
c) Fertilizin of A and B are not compatible d) None
8. Human eggs are
a) Alecithal b) Microlecithal c) Mesolecithal d) Macrolecithal
9. Skeleton and muscles develops from
a) Ectoderm b) Endoderm c) Mesoderm d) None
10. Cells become variable in morphology and functions in different regions of the embryo. The process is
a) Differentiation b) Metamorphosis c) Organization d) Rearrangement

1. Morphogenetic movements occur in

a) Cleavage stage b) Morula c) Blastulation d) Gastrulation

2. Which of the following is wrong about Oogenesis

a) Equal meiotic divisions b) Unequal meiotic divisions c) Growth phase
d) Formation of polar bodies

Q2// A // (In man and other primates the nature of the allantois is entirely different from it in reptiles, birds, and other mammals) HOW ? (5 M.)

B// What are the Functions Of Amniotic Fluid? (5 M.)

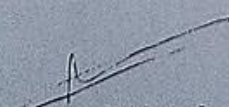
Q3// A// Sponges are unique among multicellular animals in formation of gastrula. Why? (5 M.)

B// Describe the Oogenesis process in prenatal period. (5 M.)

Q4// A// Define the following terms (Three only) (6 M.)

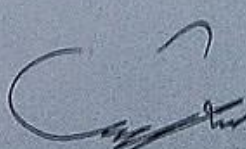
Amphimixis ; The biogenetic Law ; Chemical embryology ; ICM

B // Classified the cleavage Based on the amount and pattern of distribution of yolk. (4 M.)


Dr. Mohammed Al-Askeri

Head of Dept.

Best Wishes


Dr. Shaymaa R. Al-Helali

Lecturer