

## **EMBRYOLOGY**

1. Describe three phases of spermatogenesis (spermatocytogenesis, meiosis, spermiogenesis). Name and describe the cell types in each phase (location in spermatogenic epithelium, chromosome and DNA number).
2. Describe the blood-testis barrier (structure, location, function).
3. Describe oogenesis. Name and describe the cell types (time of the formation, location, chromosome and DNA number).
4. Describe capacitation.
5. Describe acrosomal reaction.
6. Describe cortical reaction.
7. Describe cleavage.
8. Describe the structure of blastocyst. Name the derivatives of the inner cell mass and trophoblast.
9. Describe the steps of gastrulation.
10. Describe neurulation.
11. Name ectodermal, mesodermal and endodermal derivatives.
12. Name and describe the steps of implantation.
13. Describe the structure and functions of placental barrier.
14. Describe the structure and functions of the yolk sac.
15. Name the components of amnion. Name the functions of amnion and amniotic fluid.
16. Describe the structure and functions of placenta.