

The University of Burdwan

B.Sc. Sem-6 Zoology (Hons.) Examinations,

2020 Paper Code: CC_13

(Developmental Biology)

Full Marks: 40

Time: 2Hrs

Candidates are required to give their answer in the own words as far as practicable 8×5=40

*Answer any **eight** questions of the following*

1. Differentiate between spermatogenesis and spermiogenesis. Give a brief description about ooteleosis process.
2. Describe the acrosomal process during internal fertilization. How polyspermy can be prevented during internal fertilization.
3. Describe the formation of primitive streak in chick embryo with neat diagram.
4. With definition of placenta, classify it on histological basis citing suitable examples.
5. What are the extra-embryonic membranes found in Bird? Describe the development of amnion.
6. Describe the stepwise processes of implantation in human. What is uterodomes?
7. Discuss the development of lens in chick.
8. Define regeneration and differentiate between epimorphic and morphallaxis regeneration with examples.
9. Suppose a baby born with cri-du-chat syndrome (cleft lip). His mother was exposed to thalidomide during pregnancy. Do you state the anomaly arise due to teratogenesis-Explain?
10. From which cell layer, testis, adrenal, lung, thyroid and eye are developed?