

Mode of Examination: Open Book Examination

Unique Paper Code	: 32237910
Name of the Paper	: Reproductive Biology
Name of the Course	: B.Sc. (Hons.) Zoology
Semester	: VI
Duration	: 3 Hrs.
Maximum Marks	: 75

Instruction for Students

Write your Roll No., Name of the paper, Course, Semester, and Date of examination on the first page of answer sheet.

Attempt **ANY FOUR** questions. All questions carry equal marks.

- Q 1. Enumerate the hormonal regulation of spermatogenesis. Write in detail about the Cycle and wave of seminiferous epithelium. Briefly explain the locations and functions of the seminal vesicles, the prostate, and the bulbourethral (Cowper's) glands. What is semen and what is its function?
- Q 2. With the help of a neat labelled diagram, give histological details of the human placenta. Discuss any three important hormone secreted by the placenta and add a note on their significance in gestation
- Q 3. Give an account of hypothalamo-hypophyseal ovarian axis in regulation of menstrual cycle. What is delayed implantation and it's relevance?
- Q 4. Give an account of mechanism of action of chemical contraceptives for females and the different types of chemical contraceptives available. What is the pearl index and how does it help to evaluate contraceptives?
- Q 5. Explain the mechanism of feedback that happens during childbirth. Parturition can occur without elevated plasma levels of oxytocin. Explain how the uterine oxytocin appears to control labor via paracrine mechanisms.
- Q 6. What are the primary causes of infertility in females and how are they diagnosed and managed?