

Name of the course: B.Sc. (Prog.) Life sciences  
Name of the paper: DSE- Reproductive Biology  
Semester: V  
Unique paper code: 32237910  
Duration: 3 hours  
Maximum Marks: 75

**Instructions for candidates**

Write your Roll no. on the top immediately on receipt of this question paper.

Answer any **FOUR** questions in all. All questions carry equal marks (18.75 marks each).

Draw well labelled diagrams wherever necessary.

- Q1. Differentiate between steroids and peptide hormones elaborating on their mode of action. Add a note on the hypothalamo-hypophyseal portal system.
- Q.2 Draw a well labelled diagram of T.S. of testis and explain in detail about the cellular functions and stem cell renewal in Testis of males.
- Q.3 Give a detailed account of folliculogenesis. Add a note on role of gonadotropin in folliculogenesis.
- Q.4 Discuss the hormonal regulation of menstrual cycle. How does the menstrual cycle differ from estrous cycle?
- Q.5 What are the features of a good contraceptive? Discuss intrauterine devices in details with emphasis over their advancement over the years.
- Q.6 What is Ferguson reflex? Discuss the role of prostaglandin in parturition.