

2012  
B.A./B.Sc. (Hons.) Fifth Semester  
Zoology  
Paper - I: Reproductive Biology and Human Welfare - I

Time allowed: 3 Hours

Max. Marks: 36

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit. Draw diagrams wherever necessary.

x-x-x

I. Explain the following briefly:-

- a) Fertilization
- b) Sertoli cells
- c) Cowper's gland
- d) Menstruation
- e) Seminal vesicles
- f) Acrosomal Reaction
- g) Relaxin
- h) Gestation

(8x1)

UNIT - I

- II. Describe the reproductive organs of human male in detail with well labeled diagram. (7)
- III. a) Describe the hormonal regulation of Testes. (7)  
b) Discuss the functions of testosterone. (5,2)

UNIT - II

IV. Write short notes on the following:-

- a) Semen composition
- b) Sperm maturation (2x3½)

- V. a) What are accessory glands? Discuss the role of Prostate gland.  
b) What is sperm capacitation? (5,2)

P.T.O.

(2)

UNIT - III

- VI. Discuss female reproductive organs in detail with well labelled diagram. (7)
- VII. a) Discuss the process of ovulation and formation of corpus luteum.  
b) What are the functions of estrogen? (5,2)

UNIT - IV

- VIII. What is menstrual cycle? Discuss ovarian and uterine cycles in detail. (7)
- IX. Write short notes on the following:-  
a) Parturition  
b) Lactation (2x3½)

x-x-x

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