Bachelor of Science (B.Sc.) Zoology Semester–I National Education Policy (NEP) Examination

BGO1T02—REPRODUCTIVE BIOLOGY

Paper—4

Time : Three Hours] [Maximum Marks : 80

N.B.:— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Illustrate your answers with suitable diagrams.

1. Enlist the organs of the male reproductive system and with the help of a labelled diagram, explain each one of them. 16

OR

Write notes on :

(a) Structure of human sperm with a suitable diagram. 8

(b) The process of sperm transportation in the male reproductive tract and its physiological significance. 8

2. Describe the structure of the ovary in detail with a suitable diagram. 16

OR

Write notes on :

(a) Histology and functions of the uterus. 8

(b) The process of sperm transportation in the female reproductive tract and its physiological significance. 8

3. Enlist female reproductive hormones and describe their functions. 16

OR

Write notes on :

(a) Hormonal control of the menstrual cycle. 8

(b) Phases of the menstrual cycle. 8

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4. Give a detailed account on the process of oocyte maturation. 16

OR

Write notes on :

(a) Spermatogenesis. 8

(b) Sperm-egg recognition. 8

5. Write in brief on the following (any 8) :

(a) Sertoli cells,

(b) Leydig cells,

(c) Blood testis barrier,

(d) Fallopian tubes,

(e) Fimbriae,

(f) Clitoris,

(g) LH surge,

(h) Follicle stimulating hormone,

(i) Androgen,

(j) Spermiation,

(k) Folliculogenesis,

(l) Acrosome. 16

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