

7472

4. (a) Explain the neuroendocrine control of ovarian functions. 7
(b) Give a note on dysregulation of spermatogenesis. 8
5. (a) What is spontaneous pregnancy loss? Describe pregnancy disorders. 7
(b) Explain the hormonal regulation of parturition. 8
6. (a) Explain sexual differentiation and developmental abnormalities in males and females. 7
(b) Give a detailed account of contraception. 8
7. Write short notes on any **three** of the following. 3×5=15
(a) Sexual dysfunction in males
(b) Anatomy and function of the prostate gland
(c) Postmenopausal changes
(d) Hormonal control of lactation

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : **7472 I**

Unique Paper Code : 223352004

Name of the Paper : DSE-23 Reproductive Endocrinology

Name of the Course : **B.Sc. (H) Zoology/ B.Sc. (P) Life Sciences**

Semester : VIII (NEP-UGCF)

Time : 3 Hours **Maximum Marks : 90**

Instructions for Candidates :

- (a) Write your Roll No. on the top immediately on receipt of this question paper.
(b) Attempt any FIVE questions in all, including Question No. **1** which is compulsory.
(c) Draw well labelled diagram wherever necessary.

1. (a) Define the following: 6
(i) Spermateleosis
(ii) Varicocele
(iii) Graafian follicle

- (iv) Yellow body
- (v) Biochemical pregnancy
- (vi) IUGR
- (b) Expand the following: 6
 - (i) IVF
 - (ii) LH
 - (iii) SRY
 - (iv) IUCD
 - (v) ABP
 - (vi) hPL
- (c) Differentiate between: 10
 - (i) Primary sex organs and Accessory sex organs
 - (ii) Menarche and Menopause
 - (iii) Luteinization and Luteolysis
 - (iv) Infertility and Subfertility
 - (v) Precocious puberty and Delayed puberty
- (d) Fill in the blanks. 5
 - (i)acts on granulosa cells to produce estrogen.
 - (ii) Based on the histology, the type of placenta found in humans is.....
 - (iii) Sperm maturation occurs in.....

- (iv)is the enzyme that converts testosterone to estrogen.
- (v) The hormone responsible for the ejection of milk from mammary glands is.....
- (e) State whether the statement is **true or false**. 3
 - (i) Cancer biomarkers should have high sensitivity and high specificity.
 - (ii) High prolactin inhibits pulsatile release of GnRH.
 - (iii) Many EDCs act as xenoestrogens.
- 2. (a) Define menstruation. How do endocrine disruptors disturb the menstrual cycle? 7
- (b) Give an account of the endocrine functions of the testis. 8
- 3. (a) Describe the role of hormones in the maintenance of pregnancy. 7
- (b) What is infertility? Elaborate on the causes, diagnosis, prevention and treatment of infertility in males and females. 8