

4. (a) What are the primary causes of infertility in males? Add a note on their diagnosis and management. 7
 (b) What are the different stages of labor? Describe the hormonal regulation of parturition. 8
5. (a) Give an account on cancers of human reproductive system. 7
 (b) Write a note on abnormalities during sex differentiation and development. 8
6. (a) Describe labor abnormalities. 7
 (b) Elaborate on the role of hormones in maintenance of pregnancy. 8
7. Write short notes on any **three** of the following. 5+5+5=15
 (a) Hyperprolactinemia
 (b) Blood-testis barrier
 (c) Endocrine disruptors
 (d) Pregnancy tests

[This question paper contains 4 printed pages]

Your Roll No. :

Sl. No. of Q. Paper : 8150 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 6
 (i) Pampiniform plexus
 (ii) Pre-eclampsia
 (iii) Ovulation

- (iv) Precocious puberty
- (v) Cryptorchidism
- (vi) Spermiation
- (b) Write the location and one function of the following : 4
 - (i) Sustentacular cells
 - (ii) Thecal cell
 - (iii) Seminal vesicles
 - (iv) Corpus luteum
- (c) Expand the following : 5
 - (i) EDCs
 - (ii) NO
 - (iii) FSH
 - (iv) ZP
 - (v) PSA
- (d) Fill in the blanks : 5
 - (i) The hypothalamic hormone causes the release of gonadotropins from the pituitary.
 - (ii) The yellowish milk rich in antibodies secreted during the first few days after parturition is termed as

- (iii) When implantation occurs, the corpus luteum is maintained by the
- (iv) The testicular cell that produces androgen is
- (v) is the hormone causing the production of milk during lactation.
- (e) Differentiate between : 2×5=10
 - (i) Primary spermatocyte and Secondary spermatocyte
 - (ii) Oocyte maturation and Sperm maturation
 - (iii) Primary amenorrhea and Secondary amenorrhea
 - (iv) Corpus luteum and Corpus albicans
 - (v) Azoospermia and Asthenozoospermia
- 2. (a) With the help of suitable diagram(s), explain the mammary gland development. 7
- (b) Give an account of different methods of contraception. 8
- 3. (a) Define menopause and discuss the various post-menopausal changes. 7
- (b) Elaborate on the neuroendocrine control of ovarian functions. 8