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Reproductive Physiology

Semester 4 : CC/GE 4 : Chapter 2

**Dept. Of Physiology
Ramsaday College, Amta**



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Name of the Chapter : Reproductive Physiology

Syllabus :

- ✍ Primary and accessory sex organs and secondary sex characters.
- ✍ Testis: histology, spermatogenesis, testicular hormones and their functions.
- ✍ Ovary: histology, oogenesis, ovarian hormones and their functions.
- ✍ Menstrual cycle and its hormonal control.
- ✍ Maintenance of pregnancy – role of hormones.
- ✍ Development of mammary gland and lactation - role of hormones.

Topic : Primary and accessory sex organs and secondary sex characters.

Questions:

1. Name the primary & secondary sex organs of man & woman.
2. Name the secondary sex characters in man & woman.
3. What is puberty ? Name the hormones responsible for it.
4. Write difference between primary & secondary sex organs

Topic : Testis: histology, spermatogenesis, testicular hormones and their functions.

Questions:

1. Name the different parts of male reproductive system and their functions.
2. Describe the histological structure of testis with a suitable diagram.
3. Write short notes on – Leydig's cells & Sertoli cells
4. Write the composition of semen.
5. Describe the process of spermatogenesis.
6. What are the significance of spermatogenesis?
7. What is Hypothalamus-Pituitary-Testicular axis ?
8. Describe the source, chemical nature and functions of testicular hormones.
9. Describe the histological structure of spermatozoon with a suitable diagram.
10. What do you mean by Benign prostate hypertrophy, Inguinal hernia, Cryptorchidism & ADAM ?

Topic : Ovary: histology, oogenesis, ovarian hormones and their functions.

Questions:

1. Name the different parts of female reproductive system and their functions.
2. Describe the histological structure of ovary with a suitable diagram.
3. Describe the histological structure of mature Graafian follicle with a suitable diagram.
4. Describe the histological structure of ovum with a suitable diagram.
5. Describe the process of oogenesis.
6. What are the significance of oogenesis?
7. What is Hypothalamus-Pituitary-ovarian axis ?
8. Describe the source, chemical nature and functions of ovarian hormones.
9. Write the similarities & dissimilarities between spermatogenesis-oogenesis and sperm-ovum.
10. What do you mean by Oophorocystosis, Infertility, Oophoritis & Cervical Cancer.

Topic : Menstrual cycle and its hormonal control.

Questions:

1. Define- Menarche, Menopause, Menstrual Cycle.
2. Describe the different phases of menstrual cycle.
3. How the duration of different phases of menstrual cycle was controlled by the ovarian & adenohipophyseal hormones ?
4. Define – Amenorrhea, Menorrhagia, Dysmenorrhea, & Oligomenorrhea.

Topic : Maintenance of pregnancy – role of hormones.

Questions:

1. What is implantation ?
2. Name the hormones secreted from placenta.
3. What is ectopic pregnancy ?
4. Name the different parts of foetal membrane.
5. What is pregnancy and gestation period ?
6. Describe how the pregnancy tests are performed.
7. Describe the role of different hormones to maintain pregnancy.
8. What is parturition ? Name the stages of it.
9. What is Amnionitis, Abortion & Teratogeny ?

Topic : Development of mammary gland and lactation - role of hormones.

Questions:

1. Describe the structure of mammary gland with a suitable structure.
2. Describe the development of mammary gland.
3. What is lactation?
4. Write the composition of Human milk and Colostrum.
5. Describe the role of different hormones in lactation.