

**U.G. 6th Semester Examination-2021**

**PHYSIOLOGY**

[HONOURS]

**Course Code : PHYSIOL-H-CC-T-13**

**(Reproductive Function)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** questions: 2×5=10
- What is ectopic pregnancy?
  - State the physiological importance of LH surge.
  - Name the accessory reproductive organs in males.
  - What is meant by precocious puberty?
  - State the differences between identical twins and dizygotic twins.
  - What do you understand by polyestrous and monoestrous animals?
  - What are the effects of hyperprolactinemia in females?

2. Answer any **two** questions : 5×2=10
- Why Oxytocin is called a neurohormone? Describe important physiological functions of oxytocin. 2+3=5
  - Briefly discuss the life cycle of a Graafian follicle with diagram. 5
  - Discuss about the physiological functions of Sertoli cells. What is rete testis? 4+1=5
  - Briefly discuss the mechanism of contraception by intrauterine devices (IUD). 5
3. Answer any **two** questions : 10×2=20
- What is decidual reaction?
    - Discuss the mechanism of implantation in female uterus. 4+6=10
  - State the importance of SRY gene.
    - Discuss the process of spermatogenesis and its endocrine control. 2+8=10
  - Discuss various functions of placental hormones Human chorionic gonadotropin (HCG) and Human placental lactogen (HPL) . What is placental calcification? 8+2=10
  - Write short notes on : 5×2=10
    - Hypothalamo-hypophyseal-gonadal axis
    - Pregnancy test.