



**WEST BENGAL STATE UNIVERSITY**

B.Sc. Honours 6th Semester Examination, 2022

**PHYACOR13T-PHYSIOLOGY (CC13)**

**REPRODUCTIVE FUNCTION**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

*Candidates should answer in their own words and adhere to the word limit as practicable.*

*All symbols are of usual significance.*

**Answer any five questions from the following**

8×5 = 40

1. (a) Discuss the function of FSH on its target organ. 3+3+2  
(b) Discuss the regulation of FSH secretion.  
(c) What is LH surge?
2. (a) Discuss the role of different factors in the onset of puberty. 4+4  
(b) Describe the changes in uterus during normal menstrual cycle.
3. (a) Describe the process of oogenesis. 5+3  
(b) What is acrosomal reaction?
4. (a) Describe the histological structure of testes with diagram. 5+3  
(b) Discuss the role of Leydig and Sertoli cells in the process of spermatogenesis.
5. (a) Describe the histological structure of placenta. 4+4  
(b) Describe the process of zygote implantation.
6. (a) Describe the role of hormones in the development of mammary gland during puberty and pregnancy. 6+2  
(b) What is Müllerian Inhibitory substance?
7. (a) What is Barr body? 2+6  
(b) Write down the process of sex determination of the zygote.
8. (a) Write down the anatomical localization and function of prostate. 5+3  
(b) Through which hormone pregnancy is determined? Discuss the principle of its determination.

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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