

U.G. 6th Semester Examination-2025**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.***GROUP-A**

1. Answer any five questions: 2×5=10
- a) Write the function of aromatase.
 - b) What is menarche?
 - c) Mention the types and distribution of estrogen receptors.
 - d) What are anti sperm antibodies?
 - e) Mention some important postmenopausal complications.
 - f) What is the function of AMH?
 - g) What is Klinefelter syndrome?
 - h) Define capacitation.

[Turn Over]

GROUP-B

2. Answer any two questions: $5 \times 2 = 10$
- a) Give an overview about the process of oogenesis. 5
 - b) Write the functions of Sertoli cell. What is Sertoli Cell Only Syndrome? $4 + 1 = 5$
 - c) What do you understand by hormonal contraceptives? What are the disadvantages of Intra Uterine Devices (IUD)? $3 + 2 = 5$
 - d) Discuss the changes in FSH, LH, estrogen and progesterone in the different phases of the menstrual cycle. 5

GROUP-C

3. Answer any two questions: $10 \times 2 = 20$
- a) i) What is acrosome reaction?
 - ii) Give a brief description about the process of fertilization mentioning the role of zona proteins. $3 + 7 = 10$
 - b) i) Discuss the hormonal control of spermatogenesis.
 - ii) Mention the important events of spermiogenesis. $6 + 4 = 10$

- c) i) Give an idea about the process of implantation in human.
 - ii) Discuss the changes of endometrium during peri implantation period.
 - iii) What is menopause? $5 + 3 + 2 = 10$
 - d) i) What is estrous cycle? Write the different phases of estrous cycle.
 - ii) Discuss about the physiological functions of placental hormones. $3 + 7 = 10$
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