



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

B.Sc. Honours 6th Semester Examination, 2022

**CC13-PHYSIOLOGY**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Attempt any *five*: 1×5 = 5
- (a) What do you mean by the term “Climacteric”?
  - (b) What is the function of dartos muscle?
  - (c) What is BTB?
  - (d) What is cumulus oophorus?
  - (e) What is Hirsutism?
  - (f) What is the function of inhibin?
  - (g) What is Theca Interna?
  - (h) What is atretic follicle?
  - (i) What is the relation of Estrogen with cancer?
  - (j) What is relaxin?

**GROUP-B**

- Attempt any three** 5×3 = 15
2. Give a brief description about – 2½ × 2 = 5
- (a) Fetoplacental unit
  - (b) Sperm Capacitance.
3. Describe different phases of breast development with characteristics feature. 5
4. Write down the mechanism of action of prolactin hormone in inhibition of pituitary gonadotrophin and in milk synthesis. 5
5. Describe the histology of testis with diagram. 5

6. Describe the structure and functions of spermatozoon. 5

**GROUP-C**

**Attempt any two**

10×2 = 20

7. Describe the histology and functions of prostate gland. Write down the structure and functions of Leydig cell. 6+4 = 10
8. Mention the effects of high level of progesterone and low level of progesterone. 5+5 = 10
9. Discuss the regulation of pituitary gonadotrophins with flowchart. 10
10. Briefly discuss Assisted Reproductive technology and mention some negative aspects of it. How releasing hormones are controlling ovarian functions? 5+5 = 10

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