- 5. (a) Outline the major events of uterine cycle and correlate them with ovarian events (10)
 - (b) Diagrammatically represent folliculogenesis in ovary. (5)
- 6. Write short notes (any three) $(3\times5=15)$
 - (i) Hypothalamo-hypohyseal Portal System
 - (ii) Hormonal control of testicular function
 - (iii) Ultrastructure ofa Sarcomere
 - (iv) Generation of action potential in neuron
 - (v) Synthesis and Secretion of thyroid hormones

[This question paper contains 4 printed pages.]

12 1 JUL 2023

Your Roll Weller

Sr. No. of Question Paper: 1247

Unique Paper Code

: 2232011203

Name of the Paper

: Human Physiology: Control and

Coordination

Systems/

Discipline Specific Core- 6

Name of the Course

: B.Sc (Hons) Zoology Exam-

2023

Semester

: II-(NEP-UGCF)

Duration: 2 Hours

Maximum Marks: 60

Instructions for Candidates

- 1. Write your Roll No. on the top immediately on receipt of this question paper.
- 2. Attempt any FOUR QUESTIONS in all and Question no. 1 is COMPULSORY.
- 3. Draw well labelled diagram wherever necessary
- . (a) Define the following (Any Four):
 - (i) Saltatory conduction

(4)

(ii) TRIAD	
(iii) Permissive effect	
(iv) Implantation	
(v) Motor Unit	
(b) Differentiate between the following:	(4)
(i) Absolute vs Relative refractory period	
(ii) Granulosa vs Thecal cells	
(c) Give the location and function of the follow	ing: (3)
(i) Fascia	
(ii) Corpus luteum	
(iii) Principal cells	
(d) Expand the following:	(2)
(i) IPSP	
(ii) ICSH	
(iii) BMR	
(iv) PRL	

, = "			(2)
	(e) Match the following:		(2)
	1. Myosin	(a) Axon	
	2. Nissl granules	(b) A band	
	3. Tropomyosin	(c) Calcitonin	
	4. Parafollicular cells	(d) I band	
2.	(a) How is blood-testes barrie functions of Leydig and key events in spermatog	Sertoli cells expl	ing the ain the (10)
	(b) Describe the various typ	es of muscle pro	teins.
3.	(a) Describe the events occur junction	ring at the neurom	uscular (8)
	(b) Explain the muscle cont	raction cycle.	(7)
4.	(a) Diagrammatically illustrated addrenal gland. Enumerated and describe their function(b) Explain the mode of hormone.	te the hormones i	secreted (10)