+3-IIIS-CBCS-Sc.(H) — Zool (C - 6)

2020

Time : As in Programme

Full Marks: 60

The figures in the right-hand margin indicate marks.

Answer from all the Parts as directed.

Draw labelled diagram wherever necessary.

Part - I

1.	Fill	in the blanks (any four):	$2 \times 4 = 8$
	(a)	The tissues that are sheets of cells	covering
		the body surface is known as	tissue.
	(b)	connects muscles to bon	es.
	(c)	Auto-rhythmicity is a special pro	perty of
		muscles.	
	(d)	Part of neurons that receives impu	lses and
		convey it towards the cell body are k	known as

	(e)	Supporting cells present in seminiferous		
		tubules are called cells.		
	(f)	The process of expulsion of secondary		
		oocytes from Graafian Follicle is known as		
	(g)	The alpha cells of Islet of Langerhans		
		produce		
	(h)	Hormones produces by anterior pituitary is		
		also known as hormone.		
		Part – II		
rait - II				
Answer any four of the following questions in two				
	or t	hree sentences each: $3 \times 4 = 12$		
	(a)	What is Haversian System?		
	(b)	What are endocrine glands? Give one		
		example.		
	(c)	Define synapse.		
	(d)	What are photoreceptors?		
	(e)	Name the three types of muscles. Where are		
		they located?		
	(f)	What is Graafian Follicle?		
	(g)	Define puberty.		
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2.

HF - 111/2

(Turn over)

HF - 111/2

(2)

Contd

Part - III

- Write notes on any four of the following within 50 words each and draw labelled diagrams wherever specified:
 4×4 = 16
 - (a) Connective tissue
 - (b) Osteoclast
 - (c) Sarcomere
 - (d) Resting membrane potential
 - (e) Seminiferous tubules
 - (f) Placental hormones
 - (g) Thyroid
 - (h) Adenohypophysis
 - (i) Draw a labelled diagram of neuron
 - (j) Cartilage

Part - IV

4 Answer three following questions within 300 words each (draw diagram wherever necessary):

$$8 \times 3 = 24$$

(a) Give an account of epithelial tissue.

OR

HF - 111/2 (3) (Turn over)

Describe the process of ossification of bones.

(b) Describe the ultrastructure of skeletal muscle.

OR

Discuss generation and propagation of action potential across unmyelinated nerve fibre. https://www.odishastudy.com

(c) Describe the male reproductive system.

OR

Give a detailed account of ovarian cycle. What are the different methods of contraception in female?

(d) Discuss the histological structure of pancreas, hormone produced by pancreas and their functions.

OR

Mechanism of non-steroidal hormone action.

