Total number of printed pages-4

3 (Sem-3/CBCS) ZOO HC 2

2021 (Held in 2022) hosbowy (1)

The epitheYPOJOOSpreschi

(Honours)

Paper: ZOO-HC-3026

(Animal Physiology : Controlling and Coordinating Systems)

Full Marks: 60

Time: Three hours

The figures in the margin indicate full marks for the questions.

	O11 11	JIIII JAN I JAK	2271	a di	arva ib	(2)
1	. Fill	in the blanks		cuon.	1×	·7=7
	(a)	The loss of interior of a				the ——·
		An example tissue is				

	(c)	metabolism in the body.			
	(d)	Deficiency of vasopressin causes disease.			
	(e)	Node of Ranvier is present in			
	<i>(f)</i>	The epithelial tissue present on the inner surface of bronchioles and fallopian tube is			
	<i>(g)</i>	Cortisol is a hormone.			
2.	Answer the following questions: (any four 2×4=				
	(a)	Why is simple squamous epithelium called pavement epithelium? 2			
	(b)	o) Name different hormones produced by ovary with their functions. 2			
	(c)	What is sarcoplasm? Mention its function.			
	(d)	What is erythropoiesis? Which hormone stimulates it? 1+1=2			
	(e)	What do you mean by transmission of nerve impulse?			

- 3. Answer the following questions: (any three) 5×3=15
 - (a) Describe the structure and functions of striated muscle.
 - (b) Write a short note on endocrine function of posterior pituitary.
 - (c) Describe the methods of contraception in female.
 - (d) Gonads are also endocrine organs. Justify this statement.
 - (e) Give an account on histological structure and secretion of testis with suitable diagram.
- 4. Answer **any three** of the following questions: 10×3=30
 - (a) Define epithelial tissue. Describe the classification of epithelial tissues with suitable diagram. 2+8=10
 - (b) Explain the molecular mechanism of amine hormone action with suitable example.

- (c) Describe different components of blood with their functions. How does blood differ from lymph? 8+2=10
 - (d) Define muscle twitch. Describe molecular and chemical basis of striated muscle contraction with suitable diagram. 2+8=10
 - (e) Give an account on histological structure and secretion of pancreas.

10

