2021

Zoology

[Third Semester]

Paper - C6T (Animal Physiology)

Full Marks: 40

Time: 2 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.

Illustrate the answers wherever necessary.

1.	Answer any five.		5×2=10
	A)	What is Pseudostratified epithliam?	2
	B)	What are the characteristics of good fixative	es? 2
	C)	What are the functions of lymph?	2
	D)	Classify hormones on the basis of their location.	2
			(Turn Over)

E)	Give the characteristics features of amine hormone with example and exceptions one.
F)	What is electrical synapse? Where serotonin is secreted name the sites.
G)	What is the structural composition of a thin filament of a muscle fibre?
H)	Write note on Harversian system.
2. An	swer any four. 4×5=20
A)	Write down the location, characteristics features and furnctions of transitional epitheliam.
B)	Write about the hormone, which is secreted from a dipose tissue along with fuctions.
C)	Briefly describe about microscopic anatomy of a skeletal muscle fibre.
D)	Describe the process of signal transduction through a chemical synapse.
E)	Classify fixatives on the basis of mode of action with example.
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F) What are the differences between epithelial tissue and connective tissue. What is auxochrome? 4+1=5

3. Answer any one.

 $10 \times 1 = 10$

- A) Diagrammatically show how action potential stimulates a muscle to contract. Discuss cross bridge formation in this phase. Why you get hyperpolarization stage in an action potential curve? (5+3+2)=10
- B) What are the main structural differences between bones and carlilage? When adrenaline acts in your body, then mention its mechanism of action with explanation. (5+5)=10

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