2019

B.Sc. (Hons.)

2nd Semester Examination

BIOTECHNOLOGY

Paper—C3T

rull Marks: 40	urs
The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.	
1. Answer any five questions from the following	: ×2
(a) What is Bohr effect?	2
(b) Mention the composition of saliva.	2
(c) State the functions of pacemaker cell of hea	rt.
	2
(d) What is chloride shift?	2
(e) What do you mean by parathyroid tetany?	2

(f) Mention how intra-vascular clotting is

2

prevented.

(g)	State the importance of GABA.	2
(h)	Write a brief note on pineal hormone.	2
Ans	swer any four questions from the following	ng: 4×5
(a)	Describe the mechanism of digestion absorption of lipid through GI tract. $2\frac{1}{2}$	
(b)	Why is gall bladder bile more concent than liver bile? Mention the function gastric juice.	
(c)	Describe the cellular mechanism of transport in blood.	CO ₂ 5
(d)	Describe the events of cardiac cycle.	5
(e)	State the events of chemical changes of muscle contraction. What is all-or-non	
(f)	Describe the role of adrenal medullary hor	rmone

on metabolism. What is ornithine cycle?

- 3. Answer any one question from the following: 1×10
 - (a) (i) What is oxygen dissociation curve?

 Describe the effects of pH and 2, 3 BPG on oxygen dissociation curve.
 - (ii) State the composition and functions of pancreatic juice. (2+2)+2+(2+2)
 - (b) (i) State the mechanism of generation and propagation of nerve impulses.
 - (ii) Give a brief outline structure of synaptic junction. Describe the ionic basis of EPSP and IPSP. (3+2)+(2+3)