B.Sc. 4th Semester (New Scheme)

Examination, April-2018

BIOTECHNOLOGY

Paper-BT-404

Mammalian Physiology

Time allowed: 3 hours]

[Maximum marks: 40

Note: Attempt five questions in all, selecting at least one question from each unit. Question number 1 is compulsory. All questions carry equal marks.

- 1. Write the short notes on the following.
- 8×1

- (a) Gall bladder
 - (b) Emulsification
 - (e) Cardiac cycle
 - (d) Plasma
- (e) Muscle twitch
- (f) Osmoregulation
- (g) Exocrine gland
- (h) Thymus

Unit-I

- 2. Describe the mechanism of digestion, absorption and functions of carbohydrate as well as lipid in detail. 8
- 3/ Write the notes on any two:

 4×2

(a) Respiration

	(b) Composition & function of bile juice	
	(c) Chloride shift	
	Unit-II	
A.	What is blood? Describe mechanism of coagulation of blood & why its importance?	
5.	Write the notes on any two:	4 × 2
	(a) Types of blood cells & their individu(b) Haematopoiesis	al functions
	(c) Mechanism of working of heart (Hun	man)
	Unit-III	
6.	What are similarity and differences between cardiac, smooth and skeletal muscle?	
7,	Write the notes on any two:	· 4 × 2
	(a) Osmoregulation	The same
	(b) Excretion	
	(c) Ornithine cycle	
	Unit-IV	OK)
8.	What is hormone? Describe mechanism of action of steroids hormone on our body.	
9.	Write the notes on any two: (a) Neuro-transmitter	4 × 2
2 -	(b) Pituitary glands	
	(c) Insulin hormone	The same