(i)	Printed Pag	es: 2	Roll No				
(ii)	Questions	:9	Sub. Code:	0 9		7	2
(**)	X		Exam. Code:	0	0	3	5

B.Sc. (Hons.) Biotechnology 3rd Semester (2122)

BIOCHEMISTRY

		Paner, PIOT 201 T	
		Paper: BIOT-301-T	67
Tin	ne Allo	owed: Three Hours] [Maximum Marks:	0/
Not	te :	Attempt FIVE questions in all. Q. 1 is compulsory. Se	lect
		ONE question from each unit.	
1.	(a)	What is end product inhibition?	3
	(b)	What is glycogenolysis?	3
	(c)	What is ATPase?	2
	(d)	What is the role of ketone bodies?	3
*	(e)	Name the amino acid precursor for dopamine.	2
	(f)	What is the role of transaminase enzyme?	2
		UNIT—I	
2.	(a)	Discuss the role of activated carriers in metabolism.	6
	(b)	Discuss the role of ATP as a preferred energy carrier.	7
3.	(a)	Discuss the evolution of metabolic pathways.	7
	(b)	Discuss different types of metabolic pathways.	6
		ITwen	03702

UNIT—II

Disc	cuss the reactions in Kreb's cycle. Discuss their regulation		
		13	
(a)	Discuss the feeder pathway for mannose.	5	
(b)	Discuss mechanism of oxidative phosphorylation.	8	
	UNIT—III		
(a)	Describe the beta oxidation pathway for unsaturated fa acids.	tty 7	
(b)	Discuss the synthesis and significance of ketone bodies.	6	
7. Discuss the steps in synthesis of fatty acids and regulation			
sam	e.	13	
	UNIT—IV		
(a)	Discuss the synthesis of asparagine.	5	
(b)	Discuss the formation of porphyrin ring from ami acids.	no 8	
(a)	Discuss the reactions in salvage pathway.	7	
(b)	Discuss the breakdown pathway for CMP.	6	
	(a) (b) Disconnection (a) (b) (a)	 (a) Discuss the feeder pathway for mannose. (b) Discuss mechanism of oxidative phosphorylation. UNIT—III (a) Describe the beta oxidation pathway for unsaturated faracids. (b) Discuss the synthesis and significance of ketone bodies. Discuss the steps in synthesis of fatty acids and regulation of the same. UNIT—IV (a) Discuss the synthesis of asparagine. (b) Discuss the formation of porphyrin ring from aminacids. (a) Discuss the reactions in salvage pathway. 	