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Exam. Code : 107701 Subject Code : 2405

## BFST (Hons.) Ist Semester INTRODUCTORY BIOCHEMISTRY Paper—FST-105

Tim	e All	owed—3 Hours] [Maximum Marks—	-50	
Not	e :	-Attempt any <b>FIVE</b> questions. All questions carequal marks.	arry	
1.		at is HMP pathway? Discuss this pathway. Give ifficance of this pathway.	1135.20Y(t) ((t)	
2.	(a)	Define fermentation. Discuss lactic acid and alcofermentation.	ohol	
	(b)	Differentiate between starch and cellulose.	3	
3.	What are standard amino acids? Give their classification and structure.		tion	
4.	Define lipids. Discuss the structure and functions of vario classes of lipids.		ious	
5.	(a)	What is $\beta$ -oxidation? Explain this pathway for degradation of palmitic acid.	the	
	(b)	Explain briefly the digestion and absorption of lip	oids.	

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- Define vitamin. Enumerate water and fat soluble vitamins. Explain water soluble vitamins along with daily requirement, deficiency syndromes and sources.
- What are minerals? Enlist various major and minor elements. 7. Discuss the minor elements along with deficiency syndromes, daily requirements and biochemical functions.
- 8. Write short notes on any **FIVE** of the following:
  - Sulphur containing amino acids
  - Glycogen (b)
  - (c) Thiamine
  - Storage fat (d)
  - (e) α-helix
  - (f) Epimers
  - (g) Maltose
  - (h) Linoleic acid.

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