Exam.Code:5012 Sub. Code: 11756

## 2055

## Bachelor of Science (FYUP) Second Semester

## Bio-Chemistry

Paper: Biomolecules - II

Time allowed: 3 Hours . Max. Marks: 60

NOTE: Attempt <u>five</u> questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

	2.7.2	
Ι,	Attempt the following:	
	a) What are Aromatic amino acids? Give examples.	
	b) What are Biologically active peptides? Give examples.	
	c) What are Fibrous proteins?	
	d) Give names of purine and Pyrimidine bases?	
	e) List different forms of RNA.	
	f) What are Bile pigments?	(6x2)
	<u>UNIT - I</u>	
II.	a) Discuss Stereoisomerism in Aminoacids and system for designation.	
	b) What are protein and nonprotein amino acids?	(2x6)
III.	Discuss physical and chemical properties of amino acids.	(12)
	UNIT -II	
IV.	<ul> <li>a) Discuss forces stabilizing structure of proteins.</li> </ul>	
	b) Write a note on Salting- In and salting- out of proteins.	(8,4)
٧.	Elaborate on different levels of structural organization in Proteins.	(12)
	<u>UNIT - III</u>	
VI.	a) Write note on Double helical model of DNA.	
	b) What are different forms of DNA? Explain.	(2x6)
VII.	Write about physical and chemical properties of nucleic acids.	(12)
	<u>UNIT - IV</u>	
VIII.	Discuss about Porphyrin structure and classification.	(12)
IX.	Deliberate on chemical nature and physiological significance of bile Pigments.	(12)