Exam.Code:0905 Sub. Code: 6642

## 1129 B.E. (Bio-Technology) First Semester BIO-101: Basic Biology

Time allowed: 3 Hours

industry.

Max. Marks: 50

(10)

NOTE: Attempt five questions

	and sele	ecting two questions from each Unit.	ompulsory	
I.	Answer the following:-			
		What is the function of mitochondria?		
		Mention one important function of lysosomes.		
	c)			
	d)			
	e)			
	f)	Give one example to prove Lamarckism.		
	g)			
	h)	Monosaccharide is a protein having one type of amino acids. [True/F	alse]	
	i)	Tot respiration. [True/Paise]		
	j)	The proteins used in DNA packaging are known as  What is Bioremediation?		
	J)		(10x1)	
		<u>UNIT – I</u>		
II.	Name detail.	Name different theories of origin of life and describe the theory of chemical origin in detail. (10)		
III.	a) Draw a labeled diagram of eukaryotic cell and explain all the organelles briefly.			
	b) Diff	ferentiate between a plant cell and an animal cell.	(7,3)	
IV.	a) Explain all the stages of mitosis with the help of diagram.			
		b) Differentiate between mitosis and majoris		
			(7,3)	
		<u>UNIT – II</u>		
V.	What a on their	are enzymes? How do they function? Enlist the classification of enzymes based ir functions. Mention two example of each class. (10)		
VI.	Write a	an explanatory note on any two of the following:-		
		Vitamins		
	b)	Carbohydrates		
	c)	DNA	(2x5)	
II.	Describ	De various applications of him.		
	industry	be various applications of biotechnology in agriculture, medical a	and food	