Roll 1	Мо	Т	otal Pages : 2
		BT-I/D-19 BIOLOGY Paper: BS-141A	31043
Tim	ne : T	hree Hours] [Maximum	Marks: 75
	te:	Attempt five questions in all, selecting at least of from each unit.	
		UNIT-I	
1.	(a)	Give reasons:	
		(i) Why mitochond and chloroplast a as semiautonomous organelles?	-
		(ii) Why lysosomes are called suicidal ba	-
		(iii) Why mitochondria are known as pow the cell?	(3×3=9)
	<b>(P)</b>	Write a brief account of the functional ch of living organisms.	aracteristics 6
2.	(a)	Classify and explain the organisms on tenergy and carbon utilisation.	the basis of 5
	<b>(</b> b)	Explain the structure and functions of nuc	leus. 6
	(c)	Make a comparison of uricotelic and ureot	elic animals. 4
		UNIT-II	
3.	(a)	Describe structural components of DNA as	nd RNA. 5

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	(b) Compare the 2° and 3° strucure of proteins.	5
	(c) Explain the effect of substrate concentration on e activity.	nzyme 5
4,	Write a comprehensive note on the nomenclatu classification of enzymes with suitable examples.	re and
	UNIT-III	
5.	Write notes on the following:	
	(a) Genetics of Blood group.	7
	(b) Harshey and Chase experiment for DNA as a material.	Genetic . 8
6.	Write notes on the following:	
,	(a) Diabetes type-II.	7
	(b) Prophase stage of Meiosis.	8
	UNIT-IV	
7.	Explain the following:	
	<ul><li>(a) Role of Biology in Bio-MEMS.</li></ul>	8
	(b) Different methods of Sterilization.	7
.8	(a) Give flow chart of Glycolysis with energy cor	sideration
	(b) Role of Biosensors in modern day life.	1

[P.T.O. 18/12