Total Pages: 2 Roll No. .... Discuss in breet about different manually BT-1/D-246 emysresides in 41043 Paper-BS-141A Time allowed: 3 Hours] [Maximum Marks: 75 Note: Attempt five questions in all, selecting at least one question from each unit. All questions carry equal marks. understanding of genetics recorded to the same of the UNITATION of the little of the Enlist the importance of Biology in major 1. (i) discoveries of life. Draw a well labelled structure of chloroplast. (iii) Differentiate between prokaryotic cell and eukaryotic cell. Why classification of living organisms is important. Classify living organism based upon energy and carbon utilisation and habitate. aslocimus bini sabasti - in-UNIT-II Define Carbohydrates. Enlist different criteria used (a) 3. for classification of carbohydrates. Also discuss about major functions of carbohydrates.

(b) Classify proteins based on their biological roles. 7

4. (a) Discuss in brief about enzyme kinetics and kinetic parameters of enzyme.

1-1-1-1	1 1 11-	affect enzyme activity. 8
		UNIT-III
5.	(a).	Discuss about different stages of mitosis. Also enlist
		its significance in cell physiology.
	(b)	Illustrate the concept of central dogma of molecular biology.
6.	(a)	Write down the Mendel's Law of inheritance. Also
luipi	o gang	appreciate the significance of these laws in understanding of genetics.
	(b)	With the help of example illustrate the concept of
	31. ga, 1	recessiveness and dominance. 5 UNIT-IV
7.	(a)	Why ATP is considered as energy currency of
Cate	. i 📆 .	cell. 5
	(b)	Write down the last five reactions of glycolysis
		along with names of enzymes which catalyze these
	grille.	reactions. 10
8.	(a)	Discuss in detail roles of Biology in agriculture and medicine.
h. A.	(b)	Write down a short note on Bio–MEMS. 5

Discuss in brief about different parameters that

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