Seat No.	:	
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AB-115

April-2019

B.Sc., Sem.-II

CC-103: Environmental Science (Cell: The Unit of Life)

Time: 2:30 Hours]			Max. Marks: 70	
1	(4)	Digo	usa callular divoraitu omona Eulromotoa	
1.	(A)	Disc	suss cellular diversity among Eukaryotes.	14
		(1)	OR	
		(1)	Describe organization of Endoplasmic reticulum and give its fu	
		(2)	Explain the fluid mosaic model of cell membrane with diagram	ı. 7
	(B)	Ansv	wer in brief : (Any four)	4
		(1)	Define cilia.	
		(2)	Draw labelled diagram of mitochondria.	
		(3)	Define Phytoplankton.	
		(4)	What is function of flagella?	
		(5)	Give any two difference between Bacteria and Archea.	
		(6)	Name the unique component of bacterial Cell wall.	
2.	(A)	Disc	suss aerobic and anaerobic types of respirations.	14
			OR	
		(1)	Define enzyme and describe its physico-chemical properties.	7
		(2)	Explain Active transport mechanism for nutrient uptake.	7
	(B)		wer in brief: (Any Four)	4
		(1)	What is importance of fermentation?	
		(2)	Define Photolithotrophs.	
		(3)	Define Active transport.	
		(4)	What is Anabolism?	
		(5)	List types of Photosynthetic pigments.	
		(6)	Define symport.	
AB-	115		1	P.T.O.

3.	(A)	How	tumour develops? Discuss its types, stages, detection and treatment.	14
			OR	
		(1)	Explain cell division by meiosis with diagram.	7
		(2)	Describe various theories proposed for senescence.	7
	(B)	Ans	wer in brief : (Any Three)	3
		(1)	Give a use of gene therapy.	A
		(2)	What is cytokinesis?	
		(3)	Give significance of Mitosis.	9
		(4)	What is Chemotherapy for cancer?	
		(5)	Define Apoptosis.	
4.	(A)	Desc	cribe the transcription process in prokaryotes.	14
			OR	
		(1)	Write a note on cell-to-cell communication.	7
		(2)	Discuss the Operon model with example.	7
	(B)	Ans	wer in brief : (Any three)	3
		(1)	Give an example of Terminating codon.	
		(2)	Define gene.	
		(3)	What is Central Dogma of Life?	
		(4)	List structural genes within Lac operon.	
		(5)	What is genetic code?	

AB-115 2