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COLLEGE OF ENGINEERING AND TECHNOLOGY

SCHOOL OF BIOENGINEERING, DEPARTMENT OF BIOTECHNOLOGY

ACADEMIC YEAR 2021-22 - EVEN SEMESTER

Continuous Learning Assessment Test I

Reg. No.	R	A													

Course Code:18BTB101T	Course Title: BIOLOGY		
Sem & Year: III &II	Date:06/04/2022	Duration: 60 Minutes	Max. Marks: 25

	Course Outcomes (COs)	Program Outcomes (POs)												PSOs		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	Describe the cell growth, metabolism and reproduction.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	Explain the concepts and experiments in biochemistry	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	Consolidate the significance of photosynthesis	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	Determine enzyme catalytic functions in different metabolic reaction	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	Analyze the role of biosensors and its applications	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	Compile the concepts of nervous system disorder and the diseases associated with it	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-

Part A Answer the Following **5x3 Marks = 15 Marks**

Q. No.	Questions	Marks	CO	BL	Marks Scored	PO(s)/ PSO
1	Write down the purpose of the nuclear pore in the nucleus	3	1	L3		1
2	Differentiate anabolism and catabolism	3	1	L4		1
3	Illustrate the living layer of cells	3	1	L3		1
4	Write down the purpose of vacuoles in plant cell	3	1	L4		1
5	Differentiate organelles and organs	3	1	L3		1

Part B Answer the Following **1 x 10 Marks = 10 Marks**

Q. No.	Questions	Marks	CO	BL	Marks Scored	PO(s)/ PSO
6a.	Write down in detail about cell divisions happening in sex cells	10	1	L1,L2		1
	OR					
6b.	Describe in detail about fatty acid metabolism in the brain, muscle, and adipose cells	10	1	L1, L2		1

Attainment Level (H:76 to 100%; M :50 to 75%; L: ≤ 50%)

	Quality	Max Marks	Marks Scored	% of Marks	Attainment
CO1	L1 and L2 =10 marks	25			H/M/L
	L3 and L4 =15 marks				
POs/PSOs:					

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		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1	Describe the cell growth, metabolism and reproduction.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	Explain the concepts and experiments in biochemistry	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO3	Consolidate the significance of photosynthesis	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	Determine enzyme catalytic functions in different metabolic reaction	3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	Analyze the role of biosensors and its applications	3	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	Compile the concepts of nervous system disorder and the diseases associated with it	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-

Part A Answer the Following **5x3 Marks = 15 Marks**

Q. No.	Questions	Marks	CO	BL	Marks Scored	PO(s)/ PSO
1.	Differentiate membrane-bound and non-membrane-bound organelles in a cell with examples	3	1	L3		1
2.	Which organelle you studied is involved in the equal distribution of genetic material to daughter cells when the cell divide? Write down its features	3	1	L3		1
3.	Which of the organelles contains nucleic acid other than the nucleus? Write down its function	3	1	L4		1
4.	Why do we need to include Valine and Leucine in the diet? Explain	3	1	L4		1
5.	Compare two types of metabolic reaction	3	1	L4		1

Part B Answer the Following **1 x 10 Marks = 10 Marks**

Q. No.	Questions	Marks	CO	BL	Marks Scored	PO(s)/ PSO
6a.	Outline the metabolic summary as a flow chart	10	1	L2		1
	OR					
6b.	Explain in detail negative and positive feedback in homeostasis with examples	10	1	L2		1

Attainment Level (H:76 to 100%; M :50 to 75%; L: ≤ 50%)

	Quality	Max Marks	Marks Scored	% of Marks	Attainment
CO1	L1 and L2 =10 marks	25			H/M/L
	L3 and L4 =15 marks				
POs/PSOs:					