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# SCHOOL OF BIOENGINEERING, DEPARTMENT OF BIOTECHNOLOGY B. Tech. Biotechnology Core and RM & GE Specializations

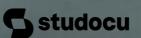
## ACADEMIC YEAR 2024-25 - ODD SEMESTER Continuous Learning Assessment Test II - FT 4

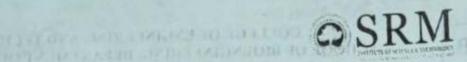
Reg. No.	R	A		新 (14 15 ) F 20 K 20 K	
Course Code:	21818	1021	Course Title: INTRODUCTIO	ON TO COMPUTATIONAL BIOLOGY	
Sem & Year:	1/1		Date: 04/12/24	Duration: 100 Minutes	Max. Marks: 50

	Course Outcomes (COs)	Program Outcomes (POs)									P	PSOs				
	CARDON DE CARDENO	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-3	Solve protein sequence analysis and biological structure prediction using computing techniques	1	J	100	1	3										
C0-4	Integrate neuronal mechanisms and computer applications that replicate its workings	3	2	2	1	3										
CO-5	Integrate the immune system and its workings to predict vaccine candidates	1	-	2	2	1				Har.	- 50					

45. 51.	Part A Choose the BEST Answer (15 MINS)	-	the state of the s		rk = 11 M	spinster, married
Q. No.	Questions	Mar ks	CO	BL	Marks Scored	PO(s) PSO
L	How many codons code for 20 amino acids a) 50 b) 96 c) 64 d) 46	1	3	LI		5
2.	The start codon AUG codes for  a) Methionine b) lysine c) leucine d)glycine	1	3	L2		5
3.	RNA polymerase is a part of a) Replication b) translation c) transcription d)splicing	1	3	L.3	Via.	5
4.	Find the ODD feature about dendrites  a) Short b) many in number c) unbranched d)pushes electric signal towards cell body	1	4	L3		5
5.	The action potential in a neuron is also called a) Depolarization b) polarization c) repolarization d) refractory	1	4	L3		5
6.	The electrical signal is converted to chemical signal at the  a) Synapse b) soma c)axon d) dendron		4	1.2		5
7.	Afferent pathways conducts nerve signal a)Away from CNS b) towards CNS c)only in PNS d)none of them	1	4	L3		5
8.	a) Epitope b) tepitope c) paratope d) bepitope	1	5	L1		5.
9.	Other than the RBCs and WBCsmakes up for the 45% cellular content in the blood  a) Stem cells b) platelets c)bacteria d)globins	1	5	1.3		5
10.	Basophils are usually less than % in a normal human a) 2 b) 4 c) 1 d)20	1	5	1.3		5
11.	are produced by Some WBCs against allergies  (a) Histamines b) morphine of leukorings diprostaglandins	Ti plan	5	L3		5

PLEASE WRITE THE QUESTIONS OF PART B AND C ON YOUR ANSWER SHEET AND SUBMIT THE MCQS TO THE TEACHER





#### COLLEGE OF ENGINEERING AND TECHNOLOGY SCHOOL OF BIOENGINEERING, DEPARTMENT OF BIOTECHNOLOGY B. Tech. Biotechnology Core and RM & GE Specializations

### ACADEMIC YEAR 2024-25 - ODD SEMESTER Continuous Learning Assessment Test II FT4

Des No. 1 R /			
Reg. No. R			
	Course Title: INTRODUCTIO	ON TO COMPUTATIONAL BIOLOGY	11 1 251
Course Code: 21B1B102	Course Title: INTRODUCTIO	Duration: 100 Minutes	Max. Marks: 50

	(60)	Program Outcomes (POs)						1	PSOs						
	Course Outcomes (COs)	+	2	13	4	5	6	7	8	9	10	11	12	1	2 3
	Solve protein sequence analysis and biological structure	12	13		1	3		1	100	1419	-	100	1		+
CO-3	The state of the composition of	3	2	2	1	3	10	50							18/19
CO-4	Integrate neuronal mechanisms and computer approximate	3	-	2	2	3			1						
CO-5	Integrate the immune system and its workings to predict viscoine candidates		-	-	-	100			00	18	115	10	Mor	-l/s	

#### Part B Answer the Following

#### 3 x 8 Marks = 24 Marks

				A COLUMN TO A COLU	A SECTION STATE OF THE PERSON STATE OF THE PER	DEME
	Questions	Marks	CO	BL	Marks Scored	PO(s PSC
Q. No.		0	1	Ll	100000	1
	Write on the different structure databases available	8			The state of the s	
12. a	Write on the different structure damage	1			100000	-
	OR OR	8	-3	LI	100	
1000	List the steps of translation and explain the termination step in	1	ALIBERT AND			100
12. b		8	4	L2	THE PERSON NAMED IN	1
	Explain different disorders related to nervous system					100
13. a	Explain different districts	A SISTE	PIN SE	Contract of	-	+
	OR	a continue	4	L2	The State of	
10. 4	Explain the methods of supervised learning	8	5	L3		
13. b	Explain the methods of super-	0	-		The second of	100
14. a	Explain different types of minutes					-
	OR	8	5	L3		
	Differentiate innate and acquired immunity	-	1000			
14. b	Differentials		111 20	1 = 3 d a - la	s = 15 Ma	rks

#### Part C Answer the Following

#### 1 x 15 Marks = 15 Marks

	Questions	Marks	co	BL	Marks Scored	PO(s) PSO
Q. No.	The state of the s	15	5	L4		
15	Display how to create an artificial immune system					
	OR A Nie (heartheat is faster, while	15	4	1.4	- Second	
16	sleeping the heartheat is slower 120 you com		Plate.		la la la	_
	beats? Explain?					

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

	Quality	Max Marks	Marks Scored	% of Marks	Attainment H/M/L
CO	L1 & L2 = 20 Marks	50			HWL
CO MILE EX	L3 & L4 = 30Marks	OTHER DESIGNATION OF THE PERSON OF THE PERSO			
POs/PSOs:	number 1.2-1 inderstand, 1.3-App	is 14-Analyse			