SRM IST - DEPARTMENT OF BIOTECHNOLOGY

21BTB102T – INTRODUCTION TO COMPUTATIONAL BIOLOGY

FT1 (2024-2025 ODD)

Reg No:	Section:			
Name:	Date:			
Note: Part-A - should be answered w of 10th minute.	ithin first 10 minutes and sheet should be handed over to hall invigilator at the end			
Time: 10 Minutes	Max Marks: 10			
	$PART - A (10 \times 1 = 10 Marks)$			
	Answer ALL Questions			
1. Which of the following cell org	anelles does not contain DNA?			
A. Nucleus	C. Lysosomes			
B. Chloroplast	D. Mitochondria			
ANS:				
2. Which of the following is not pa	rt of the cell theory?			
A. All living things are B. Cells come from exic. Cells are the basic u D. All cells contain the	sting cells. nits of structure and function in all living things.			
ANS:				
3. What is the small dark structure	in the nucleus that produces ribosomes?			
A. Rough ER	C. Smooth ER			
B. Nucleolus	D. Chromatin			
ANS:				
4. What are the two proteins that M	dicrotubules and Microfilaments are comprised of?			
A. Actin and Tubulin	C. Actin and Myosin			
B. Only Actin	D. Tubulin and Actin			
ANS:				

5. Chitin is the compound prese	ent in the cell wall of which kingdom?
A. Monera	C. Fungi
B. Plantae	D. Protista
ANS:	
6. Homeostasis usually returns	the body to a healthy state after stressful stimuli by:
A. Negative feedback	C. Positive feedback
B. Means of the immune system ANS:	•
7. As blood glucose concentration A. Insulin would be release B. Glucagon would be release C. Insulin would be release	on decreases, what homeostatic response would the body produce? ed to cause blood glucose to fall. ased to cause blood glucose to fall. ed to cause blood glucose to rise. buld be released to cause blood glucose to rise.
8. Which of the following would	d be a negative feedback response by the body to hypothermia?
A.Shivering	C. Sweating
B.Vasoconstriction of blood ve	ssels in the dermis D. An increase in metabolic rate
ANS:	
9. Match the following:	
a. Receptor -	Produces response
b. Stimulus -	Disruptions caused in control condition
c. Control center -	Generates input
d. Effector -	Receives input
10. Some of the body's homeo positive feedback?	static responses rely on "Positive feedback". Which of the following happens in
variable. B. The body ignores chang variable. C. The body's response ac	ges in a physiological variable that are directed towards the set point for that ges in a physiological variable that are directed away from the set point for that its to oppose the change in the physiological variable. Its to enhance the change in the physiological variable