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	art of the cell theory?
A. All living things are B. Cells come from exic C. 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	Aicrotubules 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 1	present in the cell wall of which kingdom?
A. Monera	C. Fungi
B. Plantae	D. Protista
ANS:	
6. Homeostasis usually retu	arns the body to a healthy state after stressful stimuli by:
A. Negative feedback	C. Positive feedback
B. Means of the immune sy	D. Means of the nervous system
ANS:	
7. As blood glucose concer	ntration decreases, what homeostatic response would the body produce?
B. Glucagon would beC. Insulin would be reD. Insulin and glucago	leased to cause blood glucose to fall. released to cause blood glucose to fall. leased to cause blood glucose to rise. on would be released to cause blood glucose to rise.
8. Which of the following	would be a negative feedback response by the body to hypothermia?
A.Shivering	C. Sweating
B.Vasoconstriction of bloo	d vessels 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 ho positive feedback?	meostatic responses rely on "Positive feedback". Which of the following happens in
variable. B. The body ignores convariable. C. The body's response D. The body's response D.	hanges in a physiological variable that are directed towards the set point for that hanges in a physiological variable that are directed away from the set point for that e acts to oppose the change in the physiological variable. e acts to enhance the change in the physiological variable
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