## 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 of 10th minute.	within first 10 minutes and sheet should be handed over to hall invigilator at the end
Time: 10 Minutes	Max Marks: 10
	$PART - A (10 \times 1 = 10 Marks)$
	<b>Answer ALL Questions</b>
1. What are small spheres that co carbohydrates?	entain enzymes able to break down proteins, lipids, nucleic acids, and some
a. Smooth endoplasmic reticulum	c. Ribosomes
b. Nucleus	d. Lysosomes
ANS:	
2. The controls w	hat enters and leaves the cell
a. Cell wall	c. Nucleus
b. Golgi apparatus	d. Cell membrane
3. Which process occurs in the ch	loroplasts of plant cells?
a. Photosynthesis	c. Digestion
b. Respiration	d. Excretion
ANS:	
4. Which organelle has its own G	enetic material?
a. Mitochondria c	. Ribosomes
b. Chloroplast d.	Both (a) and (b)
ANS:	

5. Which of the following is a component	at present in Cell wall?					
a. Nucleic acids b. Phospholipids c. Amino acids d. Cellulose						
ANS:						
6. The term "homeostasis" is described b	by which one of the following statements? The body's ability to:					
a. Respond to a stimulus or stress in such	a way as to enhance the stress					
b. Maintain a relatively constant internal	temperature					
c. Respond to a stimulus or stress in such	a way as to reduce the stress					
d. Maintain a relatively constant internal	environment					
ANS:						
7. As blood glucose concentration decrea	ases, what homeostatic response would the body produce?					
a. Insulin would be released to cause bloom	od glucose to fall.					
b. Glucagon would be released to cause b	blood glucose to fall.					
c. Insulin would be released to cause blo	od glucose to rise.					
d. Insulin and glucagon would be release	ed to cause blood glucose to rise.					
ANS:						
9. Which of the following statements sho	out mositive feedback and homeostopic is compat?					
C	out positive feedback and homeostasis is correct?					
	control most fluctuations in the internal environment of the body					
b. The response to the stimulus serves to						
	avolves an effector not a specific stimulus receptor site.					
	justments at the organ level but not at the cellular level.					
ANS:						
9. Which of the following would be a neg	gative feedback response by the body to hypothermia?					
A.Shivering	C. Sweating					
B.Vasoconstriction of blood vessels in th	ne dermis D. An increase in metabolic rate					
ANS:						
10. Which of the following would be an	example for Positive feedback mechanism?					
a. Shivering	c. Contraction of the Uterus					
b. An increase in the production of Gluca	agon d. Sweating					
ANS:						