GBCS SCHEME

USN

18NT35

Third Semester B.E. Degree Examination, Aug./Sept.2020 Fundamentals of Bioscience

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

		Module-1	
1	a.	Differentiate between Prokaryotic cell and Eukaryotic cell.	(05 Marks)
	b.	Explain any 2 in detail: i) Nucleus ii) Mitochondria (iii) Endoplasmic Re	
			(10 Marks)
	c.	Discuss in brief the 'Cell Locomotion'.	(05 Marks)
		OR	(10 % - 1)
2	a.	With a neat diagram, explain plant cell and all its organelle.	(10 Marks)
	b.	Explain any 2 in detail: i) Cell Metabolism ii) Golgi bodies iii) Lysosome	s. (10 Marks)
			(10 Marks)
		Module-2	
2	-	Enumerate Fluid mosic model in detail.	(10 Marks)
3	a.	Write short notes on: i) Active transport ii) Passive transport.	(10 Marks)
	b.	Write short notes on . 1) Metive samper	
		OR	
4	a.	Discuss the working of Na ⁺ / K ⁺ pump.	(08 Marks)
7		Focus on the function of Blood brain barrier.	(06 Marks)
	c.	Explain how Micelle's are formed with necessary diagram.	(06 Marks)
	٥.	Explain no without and a second secon	
		Module-3	
5	a.	Analyze sex linked inheritance with suitable example.	(10 Marks)
	b.		(10 Marks)
		OR	(10 Marks)
6	a.	Discuss how recombinant DNA technology works.	(10 Marks)
	b.	Focus the working of restriction endonuclease.	(10 Marks)
		Module-4	
	,		(10 Marks)
7	a.	With a neat diagram, explain in detail the antibody structure.	(10 Marks)
	b.	Describe 'Innate immunity' and its types.	,
		OR	
. 0		CT -11 Section	(10 Marks)
8		- · · · · · · · · · · · · · · · · · · ·	(10 Marks)
	b.	Discuss Adaptive minimizery and the types.	
		Module-5	
9	a.	Elaborate the working and function of protein motor.	(10 Marks)
	b.	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10 Marks)
		OR	(10 N/
10) a.	Explain ATP syntheses and its function.	(10 Marks)
	b.	TYPE 1:1. I to be the filteration unit of human hody?	(10 Marks)

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