

IV Semester B.Sc. Degree Examination, Sept./Oct. 2022 (S+Answer any nine of the follow (CBCS) (F+R) BIOCHEMISTRY (Paper - IV)

Time: 3 Hours

Max. Marks: 70

(3, a) Explain growth and remodelling of b Instructions: 1) The question paper has two Parts: Part - A and Part - B.

- 2) Answer any eight questions from Part A.
- 3) Answer any nine questions from Part B. b) Listout the functions of vitamin A

PART - A

Answer any eight of the following questions. Each question carries two marks:

 $(8 \times 2 = 16)$

b) What are essent

- 1. Write a note on connective tissue.
- 2. Listout the components of Lymph.
- Mention the buffer system of kidneys.
- 4. Mention the composition of gastric juice.
- 5. Draw a neat labelled diagram of Nephron.
- 6. What is ECG?
- 7. Define Bohr's effect. Xe no evid t aretimenationed motorioxe are tariff (d
- 8. Mention the hypoglycemic hormone. To ypololaydo bas ymoteas nislax3 (s. 81)
- 9. Give two functions of proteins.
- 10. What are non-essential amino acids? IneM 9 aenormon legal ens tenW (s. .et
- 11. Define active transport.
- 12. What are micronutrients ? Give an example. Total material and additional of the second se .O.T.9 b) Give two functions of myelin sheath



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	nswer any nine of the following questions. Each question carries six		
ma	rks		6=54)
13.	a)	Explain growth and remodelling of bone.	
	b)	Write a note on epithelial tissue.	(4+2)
14.	a)	Explain extrinsic and intrinsic pathway of blood coagulation.	
	b)	Listout the functions of vitamin A.	(4+2)
15.	a)	Discuss in detail about digestion and absorption of carbohydrates.	
	b)	Give one source of :	(4+2)
		i) phosphorus	
		ii) calcium.	
16.	a)	Enumerate the mechanism of sliding filament theory.	8
	b)	What are essential fatty acids? Give an example.	(4+2)
17.	a)	Define the following:	
		i) resting potential	
		ii) action potential.	
	b)	What are excitatory neurotransmitters? Give an example.	(4+2)
18.	a)	Explain anatomy and physiology of heart. On almost popul edi noilnelli	
	b)	What is meant by haemorrhage?	(4+2)
19.	a)	What are local hormones ? Mention the biological role of TXA ₂ and PGE ₂	2.01
	b)	How are nucleotides are digested?	(4+2)
20.	a)	Describe the determination of calorific value of food by Bomb calorimeter	12:
	b)	Give two functions of myelin sheath.	(4+2)