á A

MS - 310

IV Semester B.Sc. Examination, May 2016 (Fresh) (CBCS) (2015-16 & Onwards) BIOCHEMISTRY – IV

Time: 3 Hours

Max. Marks: 70

Instructions : i) This paper is for the students of the new syllabus 2014-15.
ii) The question paper has two Parts. Part – A and Part – B.
iii) Answer any eight questions from Part – A and nine questions

from Part – **B**.

PART-A

Answer the following questions. Each question carries two marks.

1. Which is the most abundant tissue of the body ? What is it made up of ?

- 2. Give two functions of Lymph.
- 3. Explain briefly the mechanism of expiration.
- 4. Mention the functions of pancreatic juice.
- 5. What is peritoneal dialysis?
- 6. Name the hormones of the pancreas. Give the functions of any one.
- 7. Write the structural differences between Artery and Vein.
- 8. What are neurotransmitters? Give one example of an amino acid neurotransmitter.
- 9. Draw the structure of a Cardiac muscle cell and label the parts.
- 10. Define SDA. What is its significance ?
- 11. What are the beneficial effects of Fiber ?
- 12. What is the effect of hyper vitaminosis ? What is the deficiency symptom of Vitamin A ?

PART-B

Answer the following. Each question carries six marks.

- 13. a) Discuss the structure of collagen.
 - b) Explain the steps involved in the process of blood coagulation.

(4+2) P.T.O.

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	14.	a) Explain the process of Erythropoiesis.b) What are the functions of cerebrospinal fluid	? 4+2)
	15.	a) Draw a labelled diagram of the Respiratory syb) What is balanced diet ? What is its importance	
	16.	a) How is carbondioxide transported from tissueb) What is co-transport ? Give an example.	es to lungs ? (4+2)
	17.	a) Discuss the digestion and absorption of lipidsb) What are zymogens ? What is their importan	
	18.	a) Describe the process of tubular reabsorptionb) What is GFR ? What is its importance ?	and secretion. (4+2)
	19.	a) Name any four hormones of Anterior pituitaryb) Explain the mechanism of action of steroid hor	
	20.	a) Draw a normal ECG pattern. Label and explain waves.	n the significance of its deflection
		b) What are neurotransmitter receptors ? How a	are they classified ? (4+2)
	21.	a) Discuss the mechanism of synaptic transmisb) What is myelin sheath ? What is its function	
	22.	a) Explain the sliding filament model of muscleb) Give two differences between skeletal and ca	and the second s
	23.	a) Define RQ of foods. Give an account of RQ ofb) What are the proteins of the thin filament ?	
	24.	a) Write a note on Nitrogen balance.b) What is Recommended Dietary Intake ? How is	
	25.	a) Give the sources and function ofi) Vitamin 'C'ii) Vitamin '	
		b) What is mutual supplementation of proteins ?	Give an example. (4+2)