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**1910N703**

Candidate's Seat No : \_\_\_\_\_

**B.Sc Sem.-3 Examination**

**CC-202**

**Biochemistry (Old & New)**

**October-2024**

**Time : 2-30 Hours]**

**[Max. Marks : 70**

1. a. Discuss in detail the structure of Endoplasmic reticulum 8  
b. Write comparison between prokaryotic and eukaryotic cell 6

OR

- a. Draw and explain the structure and function of Nucleus 8  
b. Discuss the function of cell wall 6

2. Write a note on 14  
a. Structure of neuron  
b. Proteins present in muscle

OR

- 2 a. Name the bone cell and explain the structure of bone 8  
b Write a note on Neurotransmitter : Acetylcholine 6

- 3 a. Discuss the two mechanism of hormone action 8  
b, Write the dietary sources, deficiency disease, draw the structure of the coenzyme form and two role of Naicin 6

OR

- 3 a Define Hormone and explain the role of insulin and glucagon 8  
b Write the dietary sources, deficiency disease, draw the structure of the coenzyme form and two role of Thiamine 6

- 4 a. Explain following terms 1. Heart rate 2. Pulmonary circulation 2  
b, Write note on cardiac cycle 12

OR

(P.T.O)  
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- |   |                                                  |   |
|---|--------------------------------------------------|---|
| 4 | a Define blood pressure and factors affecting it | 7 |
|   | b Describe brief note on ECG                     | 7 |

**5. Write answers of ANY SEVEN**

**14**

1. Draw structure of fluid mosaic model of plasma membrane
2. Why lysosomes is known as suicidal bag of the cell
- 3 What is purpose of golgi complex in the cell.
- 4 Draw the structure of Sarcomere and name protein is present in the thick and thin filament ?
5. Define Conditional Reflex action and give one example of it
6. Write a difference between electrical and chemical synapses
7. Write two rich source of Vitamin C and name of the deficiency disease
8. Give Full form of cAMP and its role in the cell
9. Give two role of Vitamin C
10. Define pulmonary and systemic circulation
11. Draw structure of Human Heart with detail
- 12 What causes lub and dub sound in heart.

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