Seat	No.	:	
		The state of the s	

## **DE-118**

December-2022

B.Sc., Sem.-III

CC-202: Biochemistry

Time: 21/2 Hours	[Max. Marks: 70		
Instructions: (1) All questions carry equal marks.  (2) Draw diagram wherever necessary.			
1. (a) Discuss the fluid Mosaic structure of plasma membrane.	8		
(b) State difference between prokaryotic and eukaryotic cell.			
OR			
(a) Discuss the structure of Nucleus.	9		
(b) Discuss the functions of Golgi bodies.	5		
2. (a) Explain sliding filament theory of muscle contraction.	8		
(b) Discuss the functions of Muscles.	6		
OR			
(a) Explain: The transmission of a nerve impulse.	8		
(b) Discuss: Bone Remodeling.	6		
3. (a) Discuss: The physiological action of Insulin.	6		
(b) Draw the structure, name the dietary sources, deficiency disea	se and three		
functions of Vitamin C.	•		
OR			
(a) Write a note on Thyroid hormones.	8		
(b) Name the dietary sources, draw the structure and state two ro	les of Riboflavin. 6		
DE-118	P.T.O.		

Draw label and explain the structure of heart. Name the two types of circulations (a) 4. and give their functions. 8 Write a note on: Cardiac output. (b) 6 OR Discuss in details the events of cardiac cycle. (a) Write a note on Blood pressure. (b) 5. Answer the followings: (any seven) 14 What is cell fractionation? (1)(2)Draw and label the structure of Mitochondria. (3)State any two functions of lysosomes. (4) Define: Resting potential and action potential. Name the proteins of Muscles. (5)What is Hydroxyapatite? Write its formula. (6)Define: Hormones & Vitamins. Name the coenzyme forms of Niacin. (8)State what is Diabetes mellitus and Goiter. (9)(10) Define: Blood capillaries and plasma. (11) Name the junctional tissue. (12) List two important properties of cardiac Muscle. State full form of ECG.