# Physiology [Minor] [NEP]

# B.Sc. First Semester End Examination-2024 [Regular and Supplementary Paper] PAPER-PHY MI 1T

Full Marks: 40

muscle?

Time: 02 Hrs.

The figures in the right hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

I. Answer any FIVE questions of the following: 5x2=10

a. Define all or none law of cardiac muscle.

b. What is residual volume?

c. Differentiate between plasma and serum.

d. What is pacemaker potential? Which one is known as secondary pacemaker?

1+1

e. Define active transport and passive transport.

1+1

f. What is liposome?

g. What is tracheobronchial tree?

What do you mean by the autorhymicity property of cardiac

	Group-B	
2.	Answer any FOUR questions of the following:	4x5 = 20
a.	Describe the function of plasma proteins.	5
b.	What are absolute and relative refractory period	of cardiac
	muscle? What is 1st degree heart block?	2+2+1
c.	Discuss the ultra structure of mitochondria.	5
d.	Write the name of the muscles involved in inspiration	. What are
	inspiration reserve volume and expiratory reserve volu	me? 3+2
e.	Write the function of peroxisome. Why Lysosome is	known as

## Group-C

suicidal bag? Why ribosome is known as protein factory? 2+2+1

### 3. Answer any ONE question of the following: 1x10 = 10

- Describe the fluid mosaic model of cell membrane. Distinguish between RER and SER. Why mitochondria is known as 'power house of cell'. 5+2+3
- b. Describe briefly about the classification of simple epithelial tissue. What is the significance of plasmapheresis? Define Oedema. 5+3+2