

B.Sc. 4th Semester (Honours) Examination, 2022

PHYSIOLOGY

Course ID: 42513

Course Code: SH/PHY/403/C-10(T)

Course Title: Respiration

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

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

1. Answer any five questions from the following: 1×5=5

- (a) Define pneumothorax.
- (b) What do you mean by athletic bradycardia?
- (c) What is pleura?
- (d) Define tidal volume with normal value.
- (e) What is respiratory distress syndrome?
- (f) What is mountain sickness?
- (g) Write any one importance of lung function test.
- (h) What is dysbarism?

2. Answer any two questions from the following: 5×2=10

- (a) What is hypertension? Briefly discuss the different factors responsible for hypertension. 1+4
- (b) Describe the peculiarities of pulmonary circulation. 5
- (c) Discuss in brief the effect of exercise on respiratory function in man. 5
- (d) Write the location and functions of baroreceptors and chemoreceptors for control of respiration. 2½+2½

3. Answer any one question from the following: 10×1=10

- (a) Describe the transport of oxygen from lungs to tissues? What is O₂ dissociation curve? What are the advantages of sigmoid shape of O₂ dissociation curve? 6+2+2
- (b) Briefly discuss the mechanism of respiration. What is Cheyne-Stokes breathing? 8+2