

U.G. 4th Semester Examination - 2021

PHYSIOLOGY

[HONOURS]

Course Code : PHYSIOL-H-CC-T-10

Full Marks : 20

Time : 1 Hour

The figures in the right-hand margin indicate marks.

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

1. Answer any **five** questions: 1×5=5
 - a) What is sleep apnea?
 - b) What do you understand by restrictive lung diseases? Give one Example.
 - c) What is meant by chloride shift?
 - d) State the functions of pneumocytes.
 - e) What is asphyxia?
 - f) Define Hering-Breuer reflex.
 - g) State the importance of FVC.
 - h) What is hemothorax?
2. Answer any **one** question: 5×1=5
 - a) Describe the oxygen-haemoglobin dissociation curve . 5

- b) What is lung surfactant? Discuss the physiological functions of lung surfactant.

2+3=5

- c) Discuss briefly the peculiarities of pulmonary circulation. 5

3. Answer any **one** question : 10×1=10

- a) What do you understand by Physiological and anatomical dead space? Write a note on voluntary hyperpnoea. 5+5=10

- b) Describe briefly the role of central and peripheral chemoreceptor in the regulation of respiration. 10

- c) Discuss briefly the mechanics of breathing. What are the different types of artificial respiration? 7+3=10

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