



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2021

PHYACOR10T-PHYSIOLOGY (CC10)

RESPIRATION

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

Answer any five questions from the following

8×5 = 40

1. What is oxygen dissociation curve? Discuss the effect of 2,3-bisphosphoglycerate on oxygen dissociation curve. What is Bohr effect? 4+4
2. Describe the role of respiratory centres and peripheral chemoreceptors in the regulation of respiration. 4+4
3. Why pulmonary circulation is called low pressure system? What do you know about lung compliance? 5+3
4. Give an account on “mechanism of breathing”. Discuss the role of diaphragm in inspiration and expiration. 5+3
5. Discuss the non-respiratory functions of lungs. What do you mean by apnoea and cheyne stokes breathing? 4+2+2
6. What do you mean by respiratory alkalosis and respiratory acidosis? Explain the term “dead space volume” and “vital capacity”. 2+(3+3)
7. Discuss the effect of gravity on alveolar ventilation. What do you mean by alveolar ventilation perfusion ratio? 5+3
8. Enumerate the causes of different types of hypoxia. What is artificial respiration? 6+2

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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