

093/20

The West Bengal University of Health Sciences
M.D. (Physiology) March-April 2020 Examination

Paper: II

Full Marks: 100
Time: 3 Hours

Attempt all questions

1. Explain Phagocytic Mechanism and T- B co-operation in immune mechanisms. 6 + 4
2. Mention the Techniques to determine life span of RBC . Explain the anisocytosis and Poikilocytosis. 4 + 3 + 3
3. Explain how various types of gastrointestinal movements are regulated ? 10
4. Name the respiratory centers. Explain the neural regulation of respiration and the effect of various lesions. Write a note on role of J-receptors. 2 + 6 + 2
5. Explain with the help of a diagram events during cardiac cycle. Discuss normal pressure-volume loop of the left ventricle ? 7 + 3
6. Describe in detail cardio-respiratory effects of athletic training . What is oxygen debt and VO_2 max? 6 + 2 + 2
7. Explain briefly mechanism of formation of urine . What is stop flow technique ? 8 + 2
8. Describe in detail the molecular basis of skeletal muscle contraction . 10
9. Describe the reabsorption of glucose in the renal tubules with diagram . What is spillover ? Add a note on SGLT inhibitors. 6 + 2 + 2
10. Explain briefly evolution of respiration and non- respiratory functions of lung . 5 + 5