

The West Bengal University of Health Sciences
M.Sc. in Medical Microbiology Part-I May - June, 2023 Examination

Time : 3 hrs.



Subject : Basics of Physiology

Full Marks : 100

Attempt all questions

1. Describe the stages of cardiac cycle, indicating the blood flow through heart (in a neat labelled diagram). Write a note on ECG. 6+4
2. Mention the composition of ECF and ICF. Discuss the facilitated diffusion through cell membrane. 6+4
3. Classify the different types of a neuron. Discuss the steps involved in synaptic transmission. 3+7
4. Discuss briefly the stages of erythropoiesis. Mention the functions of thrombocytes. 7+3
5. Define hypoxia with its types. State the mechanism of oxygen transport from alveoli to tissue. 4+6
6. State the different types of salivary glands and their secretion. Write a note on protein digestion in the digestive tract. 5+5
7. Describe the structure and functions of brain stem. 5+5
8. Mention the different stages of the female reproductive cycle. Write a note about the hormonal regulation of the different stages. 5+5
9. Describe the structure of a nephron with suitable diagram, mentioning the functions of each component. 7+3
10. Discuss the structure and functions of the mitochondria and lysosome. 5+5