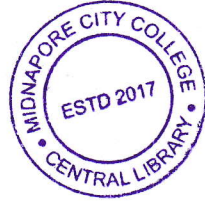


The West Bengal University of Health Sciences
M.Sc. in Medical Microbiology Part-I September, 2022 Examination

Time : 3 hrs.



Subject : Basics of Physiology

Full Marks : 100

Attempt *all* questions

1. What is Fluid mosaic model of plasma membrane? Discuss the different types of membrane protein with their functions. 6+4
2. What is motor unit? Describe the sequential events in muscle contraction and relaxation stimulated by nerve. 3+7
3. What is blood pressure (BP)? Describe the mechanism of regulation of BP. 2+8
4. Describe the role of intercostal muscle in breathing mechanism. Describe the different components of oxygen-haemoglobin dissociation curve and impact of Bohr's effect on it. 2+8
5. Describe the pituitary-gonadal axis. Write on the regulation of thyroid hormone secretion. 5+5
6. Classify neurons. Describe the formation of circulation of CSF. 4+6
7. Describe the structure and function of Juxta glomerular apparatus. Describe the neural circuit of Stretch reflex. 5+5
8. Describe the function of lacrimal apparatus. What is conjunctivitis? Describe the Phototransduction process. 2+2+6
9. Describe the stages of cardiac cycles. Write a brief note on heart sound. 5+5
10. Short note :
 - a) Pancreatic secretion and functions.
 - b) ABO blood grouping. 5+5