

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

Paper: IV

Full Marks: 100
Time: 3 Hours

Attempt all questions

1. Illustrate with diagram the process of apoptosis. Briefly discuss about proteasome mediated protein degradation. 10
2. Discuss about the DNA sequencing technique. Give an account of next generation sequencing. 10
3. Write short notes on: a) Microalbuminuria. b) CSF analysis and interpretation. 5+5
4. Discuss the concepts of stem cell on health and disease. 10
5. Classify tumour markers. Give an account on recent developments in its clinical applications. 10
6. Discuss the synthesis, regulation, mechanism of action of thyroid hormone. Prepare a workflow to investigate a case of hypothyroidism. 5+5
7. Explain the different analytical variables which are need to be regularly monitored to maintain the quality performance of a clinical biochemistry laboratory. 10
8. What is PET scanning ? Mention its principle and clinical importance. 5+5
9. Discuss the role of Nanotechnology in molecular medicine. 10
10. Write about the various methods to estimate HbA1c. What is its clinical significance ? 10