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

Paper I

Full Marks:100

Time : 3hours

Attempt all questions

1. What are domains, folds, motifs and super secondary structures of protein ? 10
2. Actin form microfilaments in non-muscle cells, but assembly of tubulins form microtubules - Explain . 10
3. Differentiate case control study and cohort study . 10
4. What is reference range ? describe validity of laboratory results . 10
5. Enumerate techniques used in clinical chemistry . Describe about absorption spectrophotometry . 10
6. 2D gel electrophoresis is one of the important tools in the proteomic study . 10
7. Write a brief note on the following: 2 X 5
 - a) Catalytic antibodies
 - b) Advanced Glycated End products (AGE).
8. Write short notes on principle and biological applications of following: 2 X 5
 - a) Sandwich ELISA
 - b) Confocal microscopy
9. 'Nuclear localization signal (NLS) are involved in transport of macromolecules in & out the nucleus'- Discuss. 10
10. Collagen undergo extensive post-translational modification to form mature collagen - Justify . 10