

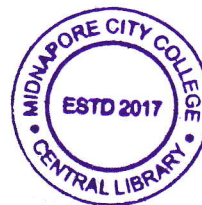
The West Bengal University of Health Sciences
M.Sc. MLT in Biochemistry 2nd Year December, 2023- January,
2024 Examination

Subject: Chemistry of Bio Molecules and Clinical Bio-Chemistry

Time: 3 hrs.

Full Marks: 80

Attempt all questions



1. Answer the following questions :

- a) What is polymerase chain reaction? How the sample is prepared for PCR? Write five diseases that can be diagnosed by PCR. 2+3+5
- b) Discuss the renal function test panel with its clinical importance. Why blood haemoglobin level decreases with impaired renal function? 8+2
- c) What is Chemiluminescence Immunoassay? Name two samples that are tested in this method. Mention the clinical significance of any one sample you mentioned. 4+1+5
- d) How Thalassaemia trait can be diagnosed before marriage? Discuss the diagnostic basis of the test procedure. What are the clinical diagnostic procedures for AIDS? 2+4+4

2. Write down short notes on :

8 x 5

- a) Post hepatic jaundice.
- b) Biosensor.
- c) Importance of trace elements.
- d) Colligative properties.
- e) Respiratory acidosis.
- f) Phenylketonuria.
- g) Mucopolysaccharides.
- h) cAMP.