

**RUHS****First Year MBBS Examination****I MBBS BIOCHEMISTRY PAPER II**

Time: 3  
hours  
Max Marks: 50

Date: 06-10-2020

**Instructions:** 1. Que. No.1 and 5 in section A and B are compulsory. Attempt ANY TWO questions from rest of the questions in each section. 2. Use separate answer sheet for each section.

**Section 1**

1. Write short notes on: (10)
  - a) Pancreatic function tests.
  - b) Dehydration - etiology & biochemical changes.
2. Write short notes on :2x4=08 (8)
  - a) Transcription
  - b) Z-DNA
3. Answer the following (8)
  - a) What is PCR? Give its importance in clinical biochemistry.
  - b) Hyponatremia – causes an biochemical basis of symptoms.
4. Give a detailed account of structure of immunoglobulins tabulate differences in different types of immunoglobulins. (8)

## Section 2

- 5.** Enumerate the biochemical determinants of metabolic and respiratory acidosis. Why is bi-carbonate buffer especially important as a blood buffer? (8)
- 6.** Write short notes on : (8)
- a) Phase 1 reactions of detoxification.
  - b) Techniques to assess glomerular filtration rate.
- 7.** Write short notes on: (8)
- a) Mutations – causes types with examples.
  - b) Human genome project.
- 8.** Write short notes on: (8)
- a) Tumor markers for liver disease.
  - b) DNA polymerase.

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