

Rajiv Gandhi University of Health Sciences, Karnataka

First Phase MBBS Degree Examination – 17-Apr-2025

Time: Three Hours**Max. Marks: 50 Marks**

BIOCHEMISTRY – PAPER II (RS3) **QP Code: 1080**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

(Note: Both QP Codes 1079 and 1080 are to be answered within total duration of three hours)
(Use separate Answer books for QP Code 1079 & 1080)

LONG ESSAYS**1 x 10 = 10 Marks**

1. Describe the source, RDA, biochemical functions, synthesis and deficiency manifestation of Vitamin D.

SHORT ESSAYS**5 x 5 = 25 Marks**

2. Name the plasma buffers and role of buffers in maintaining the acid base balance.
3. Formation and fate of bilirubin.
4. Define Basal Metabolic Rate. Explain the factors affecting BMR.
5. **What is clearance test? Which is the ideal substance used for determination of Glomerular Filtration Rate and why? Explain.**
6. Dietary fibre.

SHORT ANSWERS**5 x 3 = 15 Marks**

7. Applications of Polymerase chain reaction.
8. Name four synthetic analogues of nucleotides. Mention their therapeutic importance.
9. Name the inhibitors of replication and their clinical importance.
10. Name the selenium containing enzyme. What is its clinical importance?
11. What you mean by abnormal hemoglobins. Explain briefly. Give examples.
