

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Nursing Degree Examination – APRIL 2017

Time: 3 Hours

Max. Marks: 40 Marks

Biochemistry

Q.P. Code: 1749

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1748 and 1749 are to be answered within total duration of 3 hours)

LONG ESSAYS (Any One)

1 x 10 = 10 Marks

1. Describe in detail the Hexose Monophosphate Pathway. Mention the significance of HMP pathway.
2. Mention/List different components of eukaryotic cell. Explain fluid-mosaic model of cell membrane.

SHORT ESSAYS (Any Three)

3 x 5 = 15 Marks

3. Explain the renal regulation of acid-base balance in the body.
4. Explain Electrophoresis and its application.
5. Define diffusion. Enumerate the factors influencing diffusion.
6. Explain hormonal regulation of blood sugar level.

SHORT ANSWERS

5 x 3 = 15 Marks

7. Structure and functions of mitochondria
8. Mention 2 Polysaccharides and their importance.
9. Write four causes of metabolic acidosis.
10. Write four functions of Vitamin A.
11. What is glycosuria and how it is detected in the laboratory?
