

# Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (MLT) Degree Examination - SEP-2017

Time: Three Hours

Max. Marks: 80 Marks

## Biochemistry – Paper II (RS-3 Scheme)

**Q.P. CODE: 3156**

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

### LONG ESSAY (Any Two)

**2 x 10 = 20 Marks**

1. Explain the pathway of glycolysis. Add a note on its regulation and energetics.
2. Give a detailed account of classification of proteins.
3. Define Chromatography and Rf value. Explain the principle, procedure and applications of Thin Layer Chromatography.

### SHORT ESSAY (Any Six)

**6 x 5 = 30 Marks**

4. Classification of enzymes with two examples for each
5. Spectrophotometry – principle, instrumentation and applications
6. Preparation and importance of calibration curve
7. Structure and functions of tRNA
8. Oral glucose tolerance test
9. Absorption, transport and storage of vitamin B12
10. Transamination
11. Mucopolysaccharides

### SHORT ANSWERS (Any Ten)

**10 x 3 = 30 Marks**

12. Lesch Nyhan syndrome
13. Normal chemical constituents of urine and their normal excretion values
14. Glycated HbA1c
15. Immobilized enzymes
16. MSUD
17. Buffer solutions and substrates
18. Mutarotation
19. Salting out method of protein precipitation
20. Beriberi
21. Differences between starch and glycogen
22. Peptide bond
23. Benedict's test

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