

[LC 0413]

APRIL 2013

Sub. Code: 1201

M.Sc BIOCHEMISTRY DEGREE EXAMINATION
For candidates admitted from 2008-2009 regulations
PAPER I - PHYSICAL AND ORGANIC ASPECTS OF
BIOCHEMISTRY, INSTRUMENTATION
AND BIOCHEMICAL TECHNIQUES, BIOSTATISTICS

Q.P. Code : 281201

Time : 3 hours

Maximum : 100 marks

I. Elaborate on:

(2x20=40)

1. What is chromatography ? Mention the various types .Describe in detail about any one with a note on applications of chromatography in clinical medicine?
2. Describe in detail the structure of Haemoglobin. Add a note on how the structure of Haemoglobin aids its function.

II. Write Notes on :

(10X6=60)

1. Describe in detail subcellular fractionation and identification of various eukaryotic cell organelles.
2. Mention the various types of RNA and describe in detail the structure of tRNA?
3. Describe in detail the principle, instrumentation and applications of chemiluminescence?
4. Define Reference materials . Classify them and describe their applications in laboratory.
5. Describe in detail the Fluid mosaic model of Biomembranes.
6. Classify Fatty acids. Describe their transport in the blood, their functions with a note on lipid peroxidation.
7. How is Glucose transported across the various cells in the body?
8. Define Beer – Lamberts law and its limitations with a note on its applications in spectrophotometry?
9. Describe in detail the structure and functions of Lysosomes and a note on its disorders.
10. Describe in detail the structure of collagen, its types and functions.
