

[LD 1013]

OCTOBER 2013
M.Sc NON-MEDICAL DEGREE EXAMINATION
FINAL YEAR
BRANCH III - BIOCHEMISTRY
PAPER I – PHYSICAL AND
ORGANIC ASPECTS OF BIOCHEMISTRY

Sub. Code: 2966

Q.P. Code : 282966

Time : 3 hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on :

(2X20=40)

1. Define and classify lipids. Discuss in detail the characteristics, composition and functions of the major types of plasma lipoproteins. Add a note on the separation of the plasma lipoproteins by ultracentrifugation.

2. What is Beer-Lambert law? Discuss in detail the basic components of a spectrophotometer.

II. Write Notes on :

(10X6=60)

1. Donnan membrane equilibrium.
2. pH indicators.
3. Components and functions of Cytoskeleton.
4. Fluorescent polarization immunoassay.
5. Mutarotation.
6. Edman reaction.
7. Structure of collagen.
8. Micro-RNA.
9. DNA superhelix.
10. Chi-square test.
