



K16P 1001

Reg. No. :

Name :

Third Semester M.A./M.Sc./M.Com. Degree (Reg./Suppl./Imp.)

Examination, November 2016

BOTANY

**BOT 3C11 : Biochemistry and Biophysics
(2014 Admission Onwards)**

Time : 3 Hours

Max. Marks : 60

Instruction : Draw diagrams wherever necessary.

SECTION – A

1. a) Write an account on the classification and chemistry of monosaccharides.

OR

- b) Explain the structure and functions of immunoglobulins.

2. a) Write an account on the principle, types and applications of TLC.

OR

- b) Describe the role of radioisotopes in biological research.

(2×8=16)

SECTION – B

Answer **any two**.

3. a) Define proteins.

- b) Classify proteins.

- c) Explain tertiary structure of proteins.

(1+2+3)

4. a) What are enzymes ?

- b) Explain Lineweaver Burk plot.

- c) Add a note on enzyme inhibition.

(1+2+3)

5. a) What is a buffer ?

- b) What are its functions ?

- c) Describe Henderson-Hasselbalch equation.

(1+2+3)

(2×6=12)

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SECTION – C

Answer any six.

6. Explain biosynthesis of amino acids.
7. How do you classify lipids ?
8. Describe biodegradation of lipids.
9. Explain humoral immunity.
10. Explain the role and significance of terpenes in plant defence mechanism.
11. Mention the principle and applications of spectrophotometry.
12. How X-ray diffraction studies are useful in biological research ?
13. Write a brief note on ECG.

(6×3=18)

SECTION – D

Answer any seven.

14. Structure of starch.
15. Transamination.
16. Triglycerides.
17. Vitamin – D.
18. HIV.
19. Photomicrography.
20. Electrophoresis.
21. Atomic Absorption Spectrophotometer.
22. CAT.
23. Inflammation.

(7×2=14)