

**SECOND SEMESTER B.Sc. DEGREE (SUPPLEMENTARY/
IMPROVEMENT) EXAMINATION, APRIL/MAY 2015**

(UG-CCSS)

Complementary Course – Biochemistry

BC 2C 05 – ELEMENTARY BIOCHEMISTRY – II

Time : Three Hours

Maximum : 30 Weightage

Section AAnswer **all** questions.Each question carries a *weightage* 01¼.

1. _____ is a reducing disaccharide.
2. _____ ~~is an epimers~~ of glucose.
3. _____ ~~is a medium chain~~ fatty acid.
4. _____ ~~are basic~~ amino acids.
5. _____ ~~is an amino acid with~~ **guanido** group.
6. _____ ~~are purine~~ bases.
7. _____ ~~is type of linkage~~ present in sucrose.
8. _____ ~~are individual units~~ of lactose.
9. _____ ~~is a heteropolysaccharide~~.
10. Acid value indicates _____ of fats.
11. _____ ~~is a identification~~ test for amino acids.
12. _____ ~~are essential~~ amino acids.

(12 x ¼ = 3 weightage)

Section BAnswer **all** questions.Each question carries a *weightage* of 1.

13. Define secondary structure of proteins.
14. What is a nucleotide?
15. Define iodine number.
16. Explain structure of amylase.
17. What are reducing sugars?
18. Write short note on **cephalin**.

Turn over

19. What is protein denaturation ?
20. Write short note on chitin.
21. Draw the structure of β D glucose.

(9 x 1 = 9 w

Section C

*Answer any **five** questions.*

*Each question carries a **weightage** of 2.*

22. Explain the secondary structure of proteins.
23. What are **heteropolysaccharides**? Explain.
24. Explain the classification of fatty acids.
25. What are **disaccharides**? Explain with any *two* examples.
26. Explain the different protein sequencing method.
27. Explain **anomerism** with examples.
28. Explain the colour reactions of proteins.

(5 x 2 = 10 **weightage**)

Section D

*Answer any **two** questions.*

*Each question carries a **weightage** of 4.*

29. Give a brief account on fat constants and characteristics of fats.
30. Explain the structure of Watson-Crick model of DNA.
31. Explain **stereoisomerism** in carbohydrates with suitable examples.

(2 x 4 = 8 **weightage**)