C 82150 **(Pages : 2)** **Name**

Reg. No.....

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 A

Answer **all** *questions.*

Each question carries a weightage of Vt.

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 = 3 weightage)

Section B

Answer **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.**

(9x 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)