

25133

(Pages 2)

Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2012

(CCSS)

Biochemistry—Complementary Course

BC 2C 05—COMPLEMENTARY ELEMENTARY BIOCHEMISTRY-2

Time : Three Hours

Maximum : 30 Weightage

Section A

Answer **all** questions.

Each question carries $\frac{1}{4}$ weightage.

1. _____ ~~are anomers.~~_____
2. _____ ~~is a non-reducing disaccharide.~~
3. _____ ~~is an unsaturated fatty acid.~~
4. _____ ~~is an amino acid.~~_____
5. _____ ~~are sulphur containing~~ amino acids.
6. _____ ~~are pyrimidine bases of~~ DNA.
7. _____ ~~is a homopolysaccharide.~~
8. _____ ~~is the type of linkage present in~~ cellulose.
9. _____ ~~is an animal polysaccharide.~~
10. _____ ~~are phospholipids.~~_____
11. Iodine number indicates _____ ~~of fats.~~_____
12. _____ ~~is an animal sterol.~~_____

(12 x $\frac{1}{4}$ = 3 weightage)

Section B

Answer **all** questions.

Each question carries a weightage of 1.

13. What are **Epimers** ?
14. What are **Zwitter ions** ?
15. Define Primary structure of protein.
16. What are the differences between DNA and RNA ?
 1. What are **Phospholipids** ?

Turn over

18. Draw the structure of ATP ?
19. Define Saponification number.
20. What are nucleosides ?
21. What are Heteropolysaccharides ?

(9 x 1 = 9 weights)

Section C

*Answer any **five** questions.
Each question carries a weightage 2.*

22. Explain the colour reactions of proteins.
23. What Polysaccharides ? What are different classes of polysaccharides? Explain with example
24. What is Mutarotation ? Explain with example.
25. Explain the structure of sucrose.
26. Explain the structure and functions of cholesterol.
27. Differentiate between fats and oils.
28. What are Phospholipids ? Draw the structure of any *two* phospholipids.

(5 x 2 = 10 weight)

Section D

*Answer any two questions.
Each question carries a weightage of 4.*

29. Explain the classification of carbohydrates.
30. Explain the structure of Watson-Crick model of DNA.
31. Explain the different structural levels of proteins. How these structural levels are stabilized

(2 x 4 = 8 weight.)