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K16U 0614

Answer any three guesti

Reg. No.:....

Name :

IV Semester B.Sc. Degree (CBCSS – 2014 Admn. – Regular)

Examination, May 2016

COMPLEMENTARY COURSE IN CHEMISTRY

4C04 CHE (BS) : Chemistry (For Biological Sciences)

SECTION-A

Answer all questions. Each question carries 1 mark.

- 1. What is meant by isoelectric point?
- 2. Give two examples five membered heterocycles.
- 3. What are anomers?
- 4. What is diseases caused by the deficiency of Vitamin B₁₂?
- Name two Zn containing enzymes.

 $(5 \times 1 = 5)$

SECTION - B

Answer any four questions. Each question carries 2 marks.

- 6. What is the importance of hydrogen bonding in biological systems?
- 7. Explain the sorenson formal titration.
- 8. Give the structure of adrenaline and thyroxine.
- 9. Explain the electrophilic substitution reaction of thiophene.
- 10. Explain the term mutarotation.
- 11. Explain the role of metals in medicine giving two examples.

(4×2=8)



SECTION-C

Answer any three questions	Each question carries 3 marks.
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- 12. Discuss the structure of pyridine.
- 13. What is meant by biosynthesis of protein? Explain.
- 14. Explain sodium-potassium pump.
- 15. Compare the structure of starch and cellulose.
- 16. How will you convert glucose into fructose?

 $(3 \times 3 = 9)$

SECTION - D

Answer any two questions. Each question carries 5 marks.

- 17. Explain the structure and functions of haemoglobin and myoglobin.
- 18. Give the preparation and properties of quinoline.
- 19. a) How are proteins classified?

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b) Discuss the structure of proteins.

N.a.

- 20. a) Explain Michaelis Menton theory.
 - b) Write a note on enzyme deficiency diseases.

 $(2 \times 5 = 10)$

Answer any four questions. Each in