

**B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2019****SEMESTER – 3: CHEMISTRY (COMPLEMENTARY FOR BOTANY & ZOOLOGY)****COURSE: 15U3PCHE3.2 – INORGANIC AND BIO-INORGANIC CHEMISTRY***(For Regular - 2018 Admission and Supplementary / Improvement 2017, 2016 & 2015 Admissions)*

Time: Three Hours

Max. Marks: 60

**Section A**(Answer **all** the questions. 1 mark each)

1. Give the structure of 2, 4 D.
2. Mention any two functions of hemerythrins.
3. Give two examples for contact insecticides
4. What are apoenzymes?
5. What are antipyretics, Give one example?
6. The metal in carbonic anhydrase is.....
7. What is a nucleotide?
8. Equanil and valium are used as ..... (1 × 8 = 8)

**Section B**(Answer **any Six** questions. 2 marks each)

9. What are coupled reactions?
10. What are the important factors which effect enzyme activity?
11. What are antidepressants. Give two examples?
12. What are metaloporphyrins. Give two examples?
13. What are general uses of sulphha drugs? Give one example?
14. What are fumigants. Give examples?
15. Give an account structure of ATP.
16. What is drug addiction? (2 × 6 = 12)

**Section C**(Answer **any Four** questions. 5 marks each)

17. Write a short note on bio pesticides.
18. Give a brief description of the role of heamoglobin in oxygen transport.
19. Write a short note on different phosphatic fertilizers.
20. Give a brief description on the structure and biological functions of DNA and RNA.
21. Write a note on antibiotics and their classification on the basis of structure.
22. What is meant by Sodium Potassium pump. Explain its significance ? (5 × 4 = 20)

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**Section D**

(Answer **any Two** questions. 10 marks each)

23. Briefly discuss the structure and important function of cytochromes and ferridoxins
24. (a) What is photophosphorylation. Explain the significance  
(b) Give a brief description on the functions of photosystem I and II
25. (a) What is meant by chelation and chelation therapy. Explain the application of chelation therapy in the treatment of metal poisoning due to Cu, Hg  
(b) Discuss briefly on antiarthritis and anticancer drugs
26. a) What is meant by micronutrients and explain their role in plant growth.  
b) Write a short note on plant growth hormones

(10 × 2 = 20)

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