

B.SC. DEGREE EXAMINATION, APRIL 2018
I YEAR - I SEMESTER
Allied Paper I-ALLIED CHEMISTRY-I

Time : 3 Hours

Max.marks :60

Section A ($10 \times 1 = 10marks$)

Answer any **TEN** questions

1. Give an example for strong and weak electrolyte.
2. Define pH.
3. Mention the composition of water gas.
4. Name the salts responsible for temporary hardness.
5. What are nucleophiles? Give an example.
6. What is elimination reaction?
7. Write the structure of furan.
8. Give an example for heterocyclic compounds.
9. State Grothus Drapper law.
10. Define quantum yield.
11. Write down the formula of super phosphate.
12. Mention the hybridsation in acetylene.

Section B ($5 \times 4 = 20marks$)

Answer any **FIVE** questions

13. Explain common ion effect with suitable example.
14. How is triple super phosphate prepared?
15. What is reverse osmosis? Explain the process.
16. Explain the hybridization pattern in benzene.
17. Discuss the preparation and properties of thiophene.
18. Discuss the photo chemical reaction between hydrogen and chlorine.
19. Explain polymerization with suitable examples.

Section C ($3 \times 10 = 30marks$)

Answer any **THREE** questions

20. Derive Henderson equation.
21. Explain the various stages in the purification of water for domestic purpose.
22. Discuss substitution and condensation reactions with suitable examples.
23. Give a comparative account of heterocyclic compounds.
24. write note on a. photosensitization b. fluorescence c. chemiluminescence.