

Roll No. \_\_\_\_\_

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**SVIS-N-316 A-19**  
**B.Sc. VI Semester Degree Examination**  
**CHEMISTRY**  
**Paper - 6.2**  
**(New)**

**Time : 3 Hours**

**Maximum Marks : 80**

*Instructions to Candidates:*

*Answer all three Sections.*

**Section - A**

**I** Answer the following Questions:

**(15×1=15)**

1. What is meant by Annealing?
2. Give the chemical formula white-lead.
3. Write the composition of soda glass.
4. What are Emulsion paints?
5. What are pigments?
6. Mention one use of hydroiodic Acid.
7. Write one basic principle of green chemistry.
8. What is drug?
9. How sodamide is prepared?
10. What is deprotection?
11. What is reference electrode?
12. What is primary cell?
13. What is galvanic cell?
14. What is electrolytic cell?
15. What is over voltage?

**Section - B**

II. Answer any FIVE of the following Questions: (5×5=25)

16. How portland cement is manufactured?
17. Describe the manufacture of white lead by Dutch process.
18. Explain the preparation and applications of sodium borohydride.
19. Explain the green synthesis of Adipic acid.
20. Discuss the application of EMF measurement in potentiometric Acid-base titration.
21. Describe the construction and working of Hydrogen - oxygen fuel cell.

**Section - C**

III. Answer any FIVE of the following Questions: (5×8=40)

22. a. Give the chemical reaction involved in the manufacture of cement. (4)  
b. Explain the various types of glasses. (4)
23. a. Mention the types of varnishes and its applications. (4)  
b. Write a note on red pigments and white pigments. (4)
24. a. Describe the basic principles of green chemistry. (4)  
b. Explain the preparation and application of potassium dichromate. (4)
25. a. Write a note on protection. (4)  
b. Explain the preparation and application of potassium Permanganate. (4)
26. a. Explain the following <http://www.karnatakastudy.com>
  - i. Metal-Metal ion electrode
  - ii. Amalgum electrode (4)  
b. Write a note working of weston standard cell. (4)
27. a. How pH of solution is determined using Quinhydrone electrode? Give its limitations. (4)  
b. Write a note on nickel-cadmium cell. (4)

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