Roll No.

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## SVIS-N 309 A -16 B.Sc. VIth Semester Degree Examination CHEMISTRY Paper - 6.2

(New)

Time: 3 Hours

Maximum Marks: 80

Instructions to candidates:

Answer all sections.

## Section -A

L Answer the following Questions

 $(15 \times 1 = 15)$ 

- 1. What is glass?
- 2. Give the composition of Borosilicate glass
- 3. What is cement?
- 4. What are pigments?
- 5. What is emulsion paints?
- 6. Define chemotherapy.
- 7. What is producer gas?
- 8. Give an example of gaseous fuel
- 9. Write the structure of Gammexane.
- 10. Give one common micro organism of food stuff.
- 11. What is electrolytic cell?

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Write the relation between free energy and electrical energy Mention the reason for origin of electrode potential 14. What is standard cell? 15. What is over voltage? Section -B П. Answer any five of the following questions.  $(5 \times 5 = 25)$ 16. Describe the manufacture of glass by pot-furnace process. 17. How portland cement is manufactured? 18. What are drugs? Discuss different types of drugs 19. Explain with examples adulterants and contaminants in food products 20. Write a note on octane number of liquid fuels. 21. Derive Nenst-equation for electrode potential 22. Write a note on lead storage cell. Section -C Ш Answer any four of the following  $(4 \times 10 = 40)$ 23. a) What are different types of glasses? Give properties, and uses of Boro-silicate glass. (6) b) Explain the mechanism of setting of cement. **(4)** 24. **(6)** a) Explain the manufacture of white lead. Give the various constituents of paints. (4) b) 25. **(6)** a) Explain the proximate analysis of ash and carbonaceous matter in coal. **(4)** How do you analyse the moisture in food products b) Discuss a thin layer chromatography for chlorinated pesticides in food products (6) 26. a) **(4)** Give the synthesis and uses of Aspirin. b)

12.

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27.	a)	How pH of a solution is determined using quinhydrone electrode? Give its limitation (6)	
	b)	What is electrode potential? Calculate potential of Zn-electrode in 0.01m ZnSo solution at 28°C.	) <sub>4</sub>
		E°= -0.76 Volt	)
28.	a)	What is reference electrode? Explain the construction of calomel electrode with neat diagram and give the electrode reaction (6	
	b)	Write a note on liquid function potential	)