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Reg. No.:....

Name:.....

V Semester B.Sc Degree (CBCSS- Reg./Sup./Imp.) Examination,

November-2019

(2014 Admn. Onwards)

CORE COURSE IN CHEMISTRY

5B08 CHE: INORGANIC CHEMISTRY-II

Time: 3 hrs Max. Marks: 40

SECTION - A

Answer all questions. Each question carries one mark. (4×1=4)

- 1. What are lattice compounds?
- 2. What is meant by EAN?
- 3. Give example for ionisation isomerism.
- 4. What are the toxic effects of lead in biological system?

SECTION - B

Answer any seven questions. Each question carries two marks. (7×2=14)

- 5. What is meant by cooperativity?
- 6. What are the possible isomers of [Co(NH₃)₆Cl₂]+?
- 7. Write two applications of complexes in quantitative analysis.
- 8. Explain the hybridisation and geometry of [MnCl₄]²⁻
- 9. What are metalloenzymes? Give examples.
- 10. Write the general electronic configuration and common oxidation state of the lanthanides.
- 11. What are the uses of non ferrous alloys?
- 12. What is van Arkel method?
- 13. What are the methods for preventing corrosion?
- 14. Give two consequence of lanthanide contraction.

P.T.O.



SECTION - C

Answer any four questions. Each question carries three marks.(4×3=12)

- 15. Explain the electrochemical theory of corrosion.
- 16. What are the advantages of powder metallurgy?
- 17. Write a note on structural isomerism of complexes.

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- 18. Give the factors influencing corrosion.
- 19. What are the functions of ca in biological system?
- 20. Explain the magnetic properties of lanthanides.

SECTION - D

Answer any two questions. Each question carries five marks.(2×5=10)

- 21. Discuss the application of coordination compounds in qualitative and quantitative analysis.
- 22. Give an account of the role of sodium and potassium in biological systems.
- 23. a) Discuss the various steps involved in metallurgy.
 - b) What are the applications of alloy steels?
- 24. Explain the splitting of d orbitals in ocahedral and square planar ligand field. What are the limitations of CFT?