

Gurudas College
Internal Assessment Examination, 2021
Subject-CEMA, SEM-VI
Paper- CC-6-13

Full Marks-10

Time-30 mins

Answer any five questions

5 × 2 = 10

1. (a) Name any four interfering radicals. Why are they called 'interfering radicals'?
(b) Write the reactions only concerned with α -naphthylamine and sulphanilic acid test for nitrates.
2. Write a brief note on 'chelation therapy' with example(s).
3. Write about significance of any one of the 'Bohr effect' or 'Co-operativity effect' in connection with O₂ transport system in mammals?
4. Write the concerned reaction(s) only to explain the whole of the action of Na⁺/K⁺ ion-pump.
5. Using EAN rules find out the number of M-M bonds in [Fe₃(CO)₁₂] and [Co₄(CO)₁₂].
6. Predict and explain the order of ν_{CO} (cm⁻¹) among the following: [V(CO)₆]⁻, [Cr(CO)₆], [Mn(CO)₆]⁺.
7. What is Wilkinson's catalyst? Why analogous Iridium complexes cannot be used as catalyst?
8. (i) How nitroferrocene is prepared?
(ii) What is Zeise's salt? State its structural features.