

## QUIZ 1

2021-22

EVEN SEM

CHEMISTRY

MM:10

**NOTE:** ATTEMPT ALL QUESTIONS. EACH QUESTION CARRIES 1 MARK

- Which of the following may have fractional value  
a) Order b) molecularity c) both d) none
- Concept of overlap is applicable in  
a) Crystal field theory b) valence bond theory c) both d) none
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- Experimentally hexammine cobalt(III) chloride is found to be  
a) diamagnetic b) ferromagnetic c) paramagnetic d) none
- Which of the following may be determined experimentally  
Order b) molecularity c) both d) none
- Alpha scission is found in which of the Norrish reaction  
a) III b) II c) I d) all
- Electronic spectra in UV region span (in  $\text{cm}^{-1}$ ) is  
a) 12500-25000 b) 25000-72000 c) 72000-100000 d) none
- Which of the following cannot have zero value?  
a) Zero order reaction b) order c) molecularity d) none
- The unit of K is  $\text{time}^{-1}$  for which of the following order of the reaction  
a) 3<sup>rd</sup> b) 2<sup>nd</sup> c) zero d) 1<sup>st</sup>
- Hydrolysis of ester is an example of  
a) Zero order b) second order c) pseudo-unimolecular reaction d) all