#### UG 4<sup>th</sup> Semester Examination 2020

## CHEMISTRY

## [HONOURS]

## **Course Code: CEMHT-9 (Inorganic)**

# Full Marks: 10

#### Answer any *five* questions from the following:

### [2x5=10]

- 1. Define mass defect and packing fraction.
- 2. What is radiocarbon dating?
- 3. Write the structure and properties of Borazine.
- 4. What are pseudo halides? Write two dissimilarities between halides and pseudo halides.
- 5. Define ionization isomerism of coordination compounds and give an example of it.
- 6. i) Write IUPAC name of the following compound:
  - $[Cu(NH_3)_4][PtCl_4]$
  - ii) What is the EAN of Fe in  $Fe_2(CO)_9$
- 7. Which geometrical isomer of [Co(en)<sub>2</sub>Cl<sub>2</sub>]<sup>+</sup> shows optical isomerism? Draw the structure of its geometrical and optical isomers.