

Sessional Exam 2024
North Gauhati College
B.Sc. Semester : V (CBCS)
Subject : Chemistry (Honours)
Paper Title: Novel Inorganic Solids
Paper Code : CHE-HE-5046

Total marks: 30

Time: 1hr

The figures in the margin indicate full marks for the questions

1. Answer **any four** of the following questions: 1×4=4
 - i) What are super alloys?
 - ii) Give an example of black inorganic pigment.
 - iii) What is the amount (%) of carbon in steel?
 - iv) What are one dimensional metals?
 - v) State an application of nanocomposites.
2. Write notes on the following (**any two**): 2×2= 4
 - i) Fullerides
 - ii) White pigment
 - iii) Carbon nanotube
 - iv) Molecular magnets
3. What are refractories? How are they different from ceramics? 3
4. What do you mean by DNA nanotechnology? Discuss its biological importance. 2+2=4
5. Discuss the method of preparation of gold nanoparticles. 5
6. Discuss various methods used in the synthesis of inorganic solids. 10
