

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

Mid Semester Examination March (CLOSED BOOK)

IInd Sem 2022-2023

PHA G522 - Chemistry of Macromolecules Max. Marks 30

Date: 13/03/2023

Duration: 90 Minutes

Weightage: 30%

Instruction:

1. All questions are compulsory
2. Figures to right in square bracket indicates maximum marks
3. Write precise answers and use diagram/structures wherever necessary

1. Write a brief note on Tannin chemistry [5]
2. Name any four impurities in polysaccharide extract. Explain how will you purify polysaccharides from protein impurities in an extract? [5]
3. Answer in brief [5]
 - i. Draw α (1 \rightarrow 3) and β (1 \rightarrow 4) disaccharide of glucose (2)
 - ii. Solid phase peptide synthesis (3)
4. Explain the peptide synthesis strategy with appropriate example [5]
5. Describe phytoalexin natural products [5]
6. Discuss the synthesis of the following polysaccharide with mechanism involved [5]

