

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

End Semester Examination December (CLOSED BOOK)

Ist Sem 2023-2024

PHA G548 - Chemistry of Natural Drugs

Max. Marks 40

Date: 9/12/2023

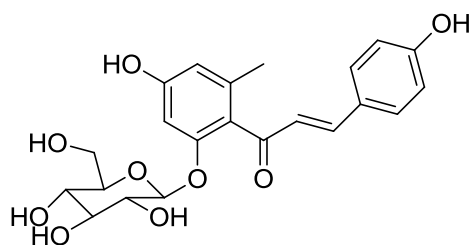
Duration: 120 Minutes

Weightage: 30%

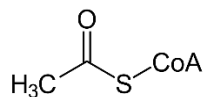
Instruction:

1. All questions are compulsory
2. Write precise answers and use diagram/structure wherever necessary

1. Discuss in detail how bioassay can play a crucial role in speeding up drug discovery programme. [6]
2. Write an brief explanatory note on [6]
 - i. SEPBOX
 - ii. Drug that contains hepatoprotective C₆-C₃ scaffold
3. Discuss the structure elucidation [¹H & ¹³C NMR] of the following compound [10]



4. How is herbal drug standardization done? What are Marker and Biomarkers in natural product chemistry [5]
5. Describe the formation of a unique class of natural product from the following precursor [5]



6. A scientist wants to discover anti-obesity phyto-molecules that have unique structure. [8]
How will he select the natural source? How will he plan the extraction and isolation of the natural products from it? Justify your answer with the help of scientific reasons
