BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

Mid Semester Examination October (CLOSED BOOK)

Ist Sem 2023-2024 PHA G548 - Chemistry of Natural Drugs Max. Marks 30

Date: 10/10/2023 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 wherever necessary
- 1. Explain the biosynthetic origin of natural products that have ability to quench free radicals and are formed by crossover of two pathways . [5]
- 2. Write an explanatory note on

[5]

- i. Phytoalexins
- ii. Factors affecting the chromatographic separations
- 3. Discuss in detail the class of natural products that are photosensitive in nature and find therapeutic applications in relieving constipation condition. [5]
- 4. A scientist wants work on natural products that are useful for treatment of a particular human disease condition. Kindly prepare a proposal for achieving this endeavor [6]
- 5. Answer the following in brief

[5]

- i. Give two examples of unique natural products and their clinical use
- ii. Define natural products
- iii. Draw structures of α -amyrin and β -amyrin
- iv. Write two advantages of drying process in phytochemical analysis
- v. Provide names of scaffold in the following structures

6. Can plants be used as drugs? Justify with at 2 concrete examples

[4]
