

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MPHARM
BRANCH: PHARMACY

SEMESTER: I
SESSION: MO/23

SUBJECT: MPG103T PHYTOCHEMISTRY

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
 2. Before attempting the question paper, be sure that you have got the correct question paper.
 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
 5. Answer any five questions.
-

1. Evaluate the different techniques to evaluate biosynthetic pathways? [15]
2. Propose a biosynthetic pathway for Sennosides and Ephedrine? [15]
3. Propose biosynthetic pathway to produce cardenolides and bufadienolides? Summarise their general features [15]
4. Propose a biosynthetic pathway for Coumarin, umbelliferone and Diosgenin? [15]
5. Propose steps how natural sources can be used for producing lead molecules [15]
6. Summarise the different extraction techniques used in preparation of extracts from natural sources [15]
7. Describe 2D NMR techniques utility in structural elucidation? [15]

:::::22/11/2023 E:::::