

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

CLASS: M. PHARM
BRANCH: PHARMACY

SEMESTER: I
SESSION: MO-25

SUBJECT: MPG102T ADVANCED PHARMACOGNOSY -I

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.

- 1a. What does in situ conservation mean, and how is it essential for protecting medicinal plant species? [7]
- 1b. In what ways can medicinal plants be grown sustainably and efficiently while following legal, environmental, and safety requirements? [8]
- 2a. How can potential drug-lead compounds be identified from organisms found in marine environments? [7]
- 2b. What major challenges appear during the process of obtaining clinical approval for natural substances from marine sources, with examples and possible solutions to illustrate these challenges? [8]
- 3a. Which key guidelines should be followed when collecting medicinal plants to ensure responsible practices, maintain their quality, and support long-term availability for ecosystems and local communities? [7]
- 3b. What are the sequential steps in Good Agricultural Practices for cultivating medicinal plants, and how does each step help maintain their quality, safety, and effectiveness? [8]
- 4a. What is ex situ conservation, and how does it support and strengthen in situ conservation for preserving medicinal plant species? [7]
- 4b. Discuss the health benefits of health drinks of natural origin, Digestive enzymes, cereals and grains. [8]
- 5a. Define Nutraceuticals. Explain the current trends and scope of it. [7]
- 5b. Describe the role of nutraceuticals in the prevention and management of diseases with suitable examples. Also, highlight the various applications of nutraceuticals in improving human health. [8]
- 6a. Discuss the medicinal uses and health benefits of Garlic and Turmeric. [7]
- 6b. Write short note on Dietary fibres and Inorganic minerals supplement, highlights their role and significance in health. [8]
- 7a. Write short note on Rutin and Quercetin. [7]
- 7b. Describe occurrence, isolation, chemical nature and characteristic features of Xanthophyll. [8]

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