

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

**CLASS: M.PHARM  
BRANCH: PHARMACY**

**SEMESTER: I  
SESSION: MO-24**

**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.

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| 1a. What are nutraceuticals, and how are they utilized in the treatment of different diseases?   | [7] |
| 1b. How will you formulate and standardize nutraceutical products.   | [8] |
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| 2a. Write short notes on Prebiotic and Probiotic.  | [7] |
| 2b. Discuss about the stability testing of nutraceuticals.   | [8] |
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| 3a. Define source, chemical compound, marker and medicinal uses of Garlic and Green and Herbal tea.  | [7] |
| 3b. Discuss the future trends and scope of nutraceuticals in India.  | [8] |
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| 4a. Describe the challenges in monitoring the safety of herbal medicine.   | [7] |
| 4b. Write short notes on Bio drug-drug interaction.  | [8] |
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| 5a. What is in situ conservation, and why is it significant for the preservation of medicinal plants?  | [7] |
| 5b. What is ex situ conservation, and how does it complement in situ conservation for the preservation of medicinal plants?  | [8] |
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| 6a. What are the sequential steps in Good Agricultural Practices for cultivating medicinal plants, and how does each step contribute to ensuring the quality, safety, and efficacy of these plant materials? | [7] |
| 6b. What key practices should be followed to ethically and responsibly collect medicinal plants, ensuring their quality and long-term sustainability for both the environment and local communities?         | [8] |
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| 7a. Write the strategies for discovering new drug-lead compounds from marine resources   | [7] |
| 7b. What are the key challenges faced in gaining clinical approval for marine natural products, and can you provide specific examples for each challenge and solutions?                                      | [8] |

:::10/12/2024:::M