

**M. PHARM. FIRST YEAR, FIRST SEMESTER EXAM 2024**

**SUBJECT: INDUSTRIAL PHARMACOGNOSTICAL TECHNOLOGY**

Time: 3 hours

Full marks: 75

**(Answer any 5 questions)**

1. Discuss the general layout for the herbal drug industry. Give a list of equipment recommended for in house quality control section with special attention to herbal products for the pharmacognosy section. 10 + 5 = 15
2. Why stability testing is an obligatory requirement in the registration process for herbal medicinal products? Discuss different types of stability testing procedures. Write an explanatory note on ICH guidelines for stability testing. 2 + 4 + 9 = 15
3. Write notes on (Any two)
  - a) Challenges faced in stability testing of herbal products
  - b) Interaction between various drugs and St. John's wort
  - c) Interaction of warfarin with various herbal products. 7.5 x 2 = 15
4. Discuss the staff requirements for the herbal drug industry. Mention the responsibilities of the head of quality control and production sections in the Herbal Drug Industry. Write down the importance of training and personal hygiene for a person working in the herbal drug industry. 4 + 6 + 5 = 15
5. Write an explanatory note on the scope and infrastructure of the herbal drug industry. 15
6. How do herbal products affect laboratory test results? What are the factors that affect the stability of herbal products? Discuss the effect of herbal products on laboratory testing of perioperative patients. 5 + 5 + 5 = 15