

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

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

**SEMESTER: I
SESSION: MO 25**

SUBJECT: MPG104T INDUSTRIAL PHARMACOGNOSTICAL TECHNOLOGY

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. Write a brief note on scope, importance and future opportunities for herbal formulations in the pharmaceutical industry. [7]
- 1b. Explain in brief about present challenges faced in modernization and upgradation of herbal formulation. [8]
- 2a. Discuss the concept of Project Selection? Outline the steps used for the selection of a Project. [7]
- 2b. Write short note on Project report and Patent. [8]
- 3a. Describe the concepts of technical knowledge and entrepreneurship and their relevance in industrial development. [7]
- 3b. Discuss the pilot plant scale-up techniques used in the pharmaceutical industry. [8]
- 4a. Explain the various parameters followed in the stability testing of herbal products. [7]
- 4b. Elaborate on the method of preparation and evaluation of any herbal formulation. [8]
- 5a. Describe the format of monograph of any pharmacopeia. [7]
- 5b. Discuss the various role and responsibilities of Quality Assurance department in Pharmaceutical Industry. [8]
- 6a. Discuss in brief about the principle and objectives of Good Laboratory Practices. [7]
- 6b. Write down the concept, and principles of Total Quality Management in pharmaceutical industries. [8]
- 7a. Describe briefly the procedure involved in filling a Patent. [7]
- 7b. Explain in detail the GMP guidelines as per WHO with reference to premises, and equipment. [8]

:::24/11/2025:::M