

(Pharmacognosy)

M. PHARM. SEM – I (CBCS – 2019 COURSE): Winter- 2021

SUBJECT: INDUSTRIAL PHARMACOGNOSTICAL TECHNOLOGY

Day: Wednesday

Time: 10:00 AM-01:00 PM

Date: 17-11-2021

Max. Marks: 75

W-20740-2021

N.B.:

- 1) Question 1 and 5 are **COMPULSORY**. Out of remaining **THREE** questions, solve any **TWO** questions from each section.
- 2) Figure to the right indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer books.

SECTION-I

- Q.1** Write a note on Infrastructure requirements of herbal drug industry. (08)
- Q.2** Explain in detail the concepts of GMP and GLP. (15)
- Q.3** Write a detailed note on Indian patent law as applicable to herbal drugs and natural products. (15)
- Q.4** Write notes on any **TWO** of the following: (15)
- a) Explain the protocols of stability testing of natural products
 - b) Copyright and Trade mark
 - c) Global marketing management of herbal drugs

SECTION-II

- Q.5** WHO guidelines in quality assessment of herbal drugs. (07)
- Q.6** Write a detailed note on formulation and production management of herbals. Add a case study on herbal cosmetics. (15)
- Q.7** Explain the current challenges in developing of Herbal formulations. Add a note on upgrading and modernization of herbal formulations. (15)
- Q.8** Write notes any **TWO** of the following: (15)
- a) Clinical laboratory testing of natural products
 - b) American herbal pharmacopoeia
 - c) ISO 9000

* * * *