

B PHARM
(SEM VIII) THEORY EXAMINATION 2022-23
QUALITY CONTROL AND STANDARDIZATION OF HERBALS

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. 10 x 2 = 20

- (a) Define ash value and give its significance.
- (b) Discuss herbal drug standardization.
- (c) Give applications of TLC with reference to herbal drug standardization.
- (d) Discuss significance of EU guidelines.
- (e) Define bitterness value with example.
- (f) What are the objectives of GAP?
- (g) Define shelf life and give its significance.
- (h) Write a note on marker compounds.
- (i) What is new drug application.
- (j) Give formula for Lycopodium spore method.

SECTION B

2. Attempt any two parts of the following: 2 x 10 = 20

- (a) Give a detailed note on physical evaluation of crude drugs.
- (b) Discuss in detail about GMP.
- (c) What are the guidelines for quality specifications of plant materials and preparations?

SECTION C

3. Attempt any five parts of the following: 7 x 5 = 35

- (a) Describe the basic tests for alkaloids and tannins in herbal preparations.
- (b) What is biological evaluation? Discuss with example.
- (c) Describe the various parameters to be included in a protocol for stability testing?
- (d) Discuss the role of HPLC in standardization of herbals.
- (e) What is gel permeation chromatography? Give its applications.
- (f) Write a note on GLP.
- (g) How clinical trials could be performed in case of herbals? Discuss with example.