Printed Pages:01 **Sub Code:BP-806ET**

Paper Id: 236449 **Roll No.** | | | | | | | | | | |

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.

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