Printed Pages: 01 **Sub Code:BOP485 D**

Paper Id: **150223** **Roll No.** | | | | | | | | | | |

B. PHARM.
(SEM VIII) THEORY EXAMINATION 2018-19
STANDARDIZATION OF HERBAL DRUGS

Time: 3 Hours ***Total Marks: 100***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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

a. Define R_f value.
b. Write a short note on swelling index.
c. Define ash value.
d. Give the principles of HPLC technique.
e. What do understand by standardization.
f. Write a short note on transverse microscopy.
g. Define extraction.
h. Differentiate between morphology and morphography.
i. Define adulteration.
j. Name some modern techniques used to separate pytoconstituents.

SECTION B

2. Attempt any *three* of the following: 10 x 3 = 30

a. Discuss methods for estimation and characterization of active plant constituents.
b. Give a detail account on screening of plant extract for anti-inflammatory activity.
c. Describe the different stages of herbal formulation.
d. Briefly describe the purpose of validation of herbal products.
e. Describe the schematic diagram for standardization of single drugs.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

a) Define evaluation. Write in detail about an organoleptic and physical evaluation of crude drugs.
b) Enumerate the method for determination of extractable matter in herbal plant.

4. Attempt any *one* part of the following: 10 x 1 = 10

a) Explain various methods for standardization of the herbal drugs.
b) Define quality control. Give the importance of standardization in quality control.

5. Attempt any *one* part of the following: 10 x 1 = 10

a) Give a descriptive note on evaluation of herbal extracts.
b) Write a note on Hormone induced diabetes (NIDDM).

6. Attempt any *one* part of the following: 10 x 1 = 10

a) Give a descriptive note on commerce of medicinal plant in global market
b) Explain modern techniques for separation and characterization of active plant constituents.

7. Attempt any *one* part of the following: 10 x 1 = 10

a) Describe the general methodology for screening of plant extract of antibacterial activity.
b) Give general method of screening of natural products for hypoglycemic activity.