Printed Pages:2 **Sub Code:BOP485D**

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B.PHARM
(SEM-VIII) THEORY EXAMINATION 2017-18
STANDARDIZATION OF HERBAL DRUGS

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

Note: 1. Attempt all Sections.

SECTION A

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

a. What do you mean by adulteration?
b. Differentiate between morphology and morphography.
c. Give example of two plant drugs that can be assayed by spectrofluorimetry.
d. Which method is used to determine moisture content in volatile oil containing drugs?
e. What are the components of ash?
f. Name the apparatus used for the determination of volatile oil content in vegetable drugs.
g. Give the formula used for the determination of maximum residue limits.
h. What are the problems associated with standardization of herbal drugs?
i. Name some modern techniques used to separate phytoconstituents.
j. Name the chemicals used to induce hyperglycemia in laboratory animals.

SECTION B

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

a. Write in detail about mieroscopical evaluation of crude drugs.
b. Highlight the importance of standardization in quality control. Describe various parameters of standardization of herbal drugs as per WHO guidelines.
c. What do you mean by characterization? Give a comparative study between chemical and physical characterization of phytoconstituents.
d. Give a detail account on quality control parameters to be fixed for herbal formulations where lead compound(s) are not available.
e. Give a detail account on screening of plant extract for anti-inflammatory activity.

SECTION C

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

(a) Define evaluation. Write in detail about organoleptic and physical evaluation of crude drugs.
(b) What are the standards applicable to fixed and volatile oils. Discuss in detail.

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

(a) Explain in detail about the problems associated with standardization of vegetable drugs and their formulations.

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(b) What are the various factors that should be taken care of to obtain better quality of herbal formulations? Elaborate in detail.

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

(a) Explain the methods used to isolate phytoconstituents from fresh and dried plant material.

(b) Discuss in detail about super critical fluid extraction technique and discuss its merits and demerits over soxhlation method.

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

(a) What are lead compounds? Discuss the significance of lead molecules in phytochemical estimation in various herbal formulations as well as in raw materials.

(b) What parameters has to be studied to fix standard of Asavaand Arishta?

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

(a) Give the screening methods to screen plant extracts for Antibacterial activity.

(b) Give a detail account on screening of Antifertility herbs.

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