PAPER ID-310847

Subject Code: **BP806ET**

Roll No: | | | | | | | | | | | | | |

BPHARM

(SEM VIII) THEORY EXAMINATION 2023-24

QUALITY CONTROL AND STANDARDIZATION OF HERBAL

TIME: 3 HRS **M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Sketch a well labeled diagram wherever required.

SECTION A

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

a.	What is the role of chemical markers in standardization of herbal products?
b.	Give the principle and significance of HPTLC in herbal drugs fingerprinting.
c.	Write the objectives of GLP for manufacturing of herbal medicines as per W.H.O. guidelines.
d.	How the quality control of herbal drugs is determined? Give with suitable example.
e.	What is the shelf life of herbal drugs? Give its significance.
f.	Define stomatal number and stomatal index.
g.	What are the different types of drug applications?
h.	What are the merits and demerits of chemical evaluation of herbal drugs?
i.	What is extractive value? Give the significance of solvent choice in extraction process.
j.	Differentiate between adsorption and partition chromatography with suitable examples.

SECTION B

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

a.	Explain basic principles, working and applications of various chromatographic techniques in standardization of herbal products.
b.	Write a detailed note on regulatory requirements for herbal medicines as per WHO guidelines on safety monitoring of herbal medicines.
c.	What are the objectives and requirements under WHO Guidelines on current good manufacturing Practices (cGMP) for Herbal Medicines?

SECTION C

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

a.	Give the types and significance of microscopical evaluation in standardization of herbal drugs.
b.	What are the requirements and significance of stability testing of herbal medicines?
c.	Write about the significance and applications of clinical trials in case of herbals?
d.	What are the research guidelines for evaluating the safety and efficacy of Herbal Medicines?
e.	What are the requirements of documents for new drug application as per D&C act provisions?
f.	Write a short note on biological markers in standardization of herbal products?
g.	Discuss the general requirements of quality assurance in herbal drug industry.

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