[LL 1017] OCTOBER 2017 **Sub. Code: 7601**

FELLOWSHIP IN STANDARDICATION OF ISM DRUGS EXAMS
FINAL EXAMS
PAPER I – STANDARDIZATION & QUALITY CONTROL OF ISM DRUGS

Q.P. Code: 237601

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Standardization of drugs by physical, chemical and biological methods.
2. Extraction, isolation and identification of phyto-constituents.

II. Write notes on: **(10 x 6 = 60)**

1. Purification of alcohol, petroleum ether, ethyl acetate and chloroform.
2. Principle and application of HPLC and HPTLC.
3. Uses of pilot scale extraction and supercritical fluid extraction.
4. Natural and Instrumental methods of drying with their merits and demerits.
5. Suitable extraction methods for alkaloids and tannins.
6. a) Why drug standardization is necessary?
   b) Difference between herbal and synthetic drugs.
7. Write notes on global regulatory norms on herbal medicines.
8. Different types of toxicity studies of herbal drugs.
9. a) Primary processing of herbal products.
   b) Why documentation is required?
10. WHO guidelines for assurance of herbal drugs.

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[LN 1018] OCTOBER 2018 **Sub. Code: 7601**

FELLOWSHIP IN STANDARDIZATION OF ISM DRUGS EXAMS
FINAL EXAMS
PAPER I – STANDARDIZATION & QUALITY CONTROL OF ISM DRUGS

Q.P. Code: 237601

Time: Three hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Standardization of herbal raw materials using physical, chemical and biological methods.

2. List out different methods of extraction such as maceration, percolation, hot continuous extraction and their merits and demerits.

II. Write notes on: **(10 x 6 = 60)**

1. Pharmacognostical method of herbal drug standardization.
2. Toxicity studies of herbal drug evaluation.
3. Merits and demerits of the artificial method of drying.
4. Collection and harvesting of herbs.
5. What is pilot scale extraction?
6. Key benefits of identification of bioactive compounds using phytochemical analysis.
7. Estimation of phytocomponents using HPTLC.
8. Methods involved in purification and recovery of solvents.
9. Guidelines involved in Quality assurance of herbal drugs.
10. Need of herbal drug standardization.

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