

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[BPHARM 0522]**

**MAY 2022  
(FEBRUARY 2022 EXAM SESSION)**

**Sub. Code: 4268**

**B. PHARMACY DEGREE EXAMINATION  
FOURTH (FINAL) YEAR – (NON-SEMESTER)  
PAPER II – ADVANCED PHARMACOGNOSY  
*Q.P. Code: 564268***

**Time: Three hours**

**Answer ALL questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Explain the utilization of radioactive isotopes in bio-genetic studies.  
b) Discuss briefly about modern extraction techniques.
2. a) Write a brief note on Plant growth regulators and its applications.  
b) Give an account on WHO guidelines for the assessment of Herbal medicines.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Stability tests for Herbal extracts.
2. Allergenic extracts.
3. Source, structure and uses of anti HIV drugs.
4. Types of chromatography and its application.
5. Preparation and uses of Tinctures and Herbal Cosmetics.
6. Write the basic principles involved in Siddha.
7. Biosynthesis of Streptomycin.
8. Preparation and standardization of Lehyas and Bhasmas.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Formulation, Biological source constituents and uses of Brahmi.
2. Write the precursor and uses of Ergometrine.
3. Structure and uses of cephalosporin.
4. Define Churna with example.
5. Structure and uses of Hypericin.
6. Any two application of IR spectroscopy.
7. Write the two methods used to fuse the protoplast cell.
8. Source and uses of Glycyrrhizin.
9. Ash value and its significance.
10. Define Biogenesis.

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