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

**[MD (UNANI) 1125]** **NOVEMBER 2025** **Sub. Code: 1421**

**UNANI MAHIR TIB (DOCTOR OF MEDICINE – MD)**
**COMPETENCY – BASED DYNAMIC CURRICULAM (CBDC)**
**FIRST YEAR - (For candidates admitted in the academic year 2024-2025)**
**SEMESTER II / SECOND SUMMATIVE ASSESSMENT EXAMINATIONS**
**BRANCH – IV ILMUL ADVIA (MATERIA MEDICA, PHARMACOLOGY AND PHARMACOGNOSY) PAPER I - APPLIED BASICS OF ILMUL ADVIA**
**UNIPG – AB-IA**

***Q.P. Code: 481421***

**Time: Three hours** **Answer ALL Questions** **Maximum: 100 Marks**

**I. Analytical-Based Structured Question (ABQ):** **(1 x 20 = 20)**

1. Critically analyze the commonly used animal models for evaluating drugs acting on the cardiovascular system, emphasizing their scientific basis, methodology, translational relevance and limitations.

**II. Short Answer Questions:** **(8 x 5 = 40)**

1. What is the fundamental principle behind Attar Israeli's method of observation in evaluating drug formulations?
2. Evaluate the significance of retention time and Rf values in chromatographic analysis for drug standardization.
3. Write in detail about the standardization of Majoon.
4. List and briefly describe the commonly used anaesthetic agents in laboratory animals, including their routes of administration.
5. Describe the setup and main components of an Organ Bath system used in pharmacological experiments.
6. Write note on Reproductive and Developmental Toxicity.
7. How is Borntragner's test used to detect anthraquinone glycosides and what observation confirms a positive result?
8. What is the purpose of the ARRIVE Guidelines in animal research and why are they important for reporting scientific studies?

**III. Long Answer Questions:** **(4 x 10 = 40)**

1. Define phytoconstituents give 5 examples and brief its importance.
2. Discuss the principle, procedure and application of Gas Chromatography (GC) in evaluating Unani drug formulations.

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3. Describe the OECD guidelines for conducting acute toxicity studies, highlighting their procedures, advantages and limitations.
4. Describe animal models for evaluating Analgesic activity.

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