

**M.D. (SIDDHA) DEGREE EXAMINATION**  
**THIRD YEAR**  
**BRANCH II – GUNAPADAM**  
**PAPER III – APPLIED PHARMACOLOGY INCLUDING**  
**MEDICINAL CHEMISTRY AND BIOASSAY OF DRUGS**

*Q.P. Code :322145*

**Time: Three Hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Describe the role of cardiac glycosides in the treatment of heart failure and how will you evaluate the cardio tonics used for treatment of heart failure?
2. Classify analgesics and discuss the pharmacological actions and therapeutic uses of Morphine and how will you evaluate analgesic agents?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Sources and forms of drug preparations.
2. Biological half-life.
3. Maximum electroshock method (MES-Test).
4. Dose response relationship.
5. Methods of testing local anaesthetics.
6. Adverse drug reactions.
7. Elevated plus maze.
8. Two kidney one clip method.
9. Stress and NSAID's induced ulcers.
10. Limitations of animal studies.

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