

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

[MD(SIDDHA) 0222]

**FEBRUARY 2022**  
**(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 3118**

**M.D. (SIDDHA) DEGREE EXAMINATION**  
**THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)**  
**BRANCH II - GUNAPADAM**  
**PAPER IV – ESSENTIALS IN PHARMACOLOGY**  
*Q.P. Code : 323118*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify elaborately different types of insulin preparations and describe the pharmacological actions and its therapeutic uses.
2. Describe elaborately about the pharmacological actions of cardio tonics and how will you evaluate the drugs used for heart failure.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Write a note on the following:
  - a) Microculture Tetrazolium test.
  - b) Cisplatin induced emesis model.
2. What is plasma protein binding and mention its clinical significance.
3. What are the methods involved in prolonging drug actions by giving examples.
4. Write a about
  - a) Arthus reaction.
  - b) Drug dependence.
5. Write any two methods used for microbiological assay of drug samples.
6. Write a short note on
  - a) Streptozotocin induced diabetes.
  - b) Cupric acetate induced ovulation in Rabbits.
7. Write a note on following apparatus
  - a) Rota rod.
  - b) Actophotometer.
8. Discuss how haematonics are evaluated in animals.
9. Write any two methods used to evaluate anti-arrhythmic agents.
10. Write a note on the following methods
  - a) Intradermal wheal method.
  - b) Hind paw method.

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