

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

[PHARMD 0522]

MAY 2022

Sub. Code: 3810

**(APRIL 2022 EXAM SESSION)
PHARM. 'D' DEGREE EXAMINATION
SECOND YEAR (2009-2010 Regulation)
PAPER IV – PHARMACOLOGY - I
Q.P. Code : 383810**

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Define Pharmacodynamics. Mention the various drug targets. Explain the structure and mechanism of activation of G-protein coupled receptors.
2. Classify antihypertensive agents according to their mechanism of action. Explain about pharmacology of potassium channel modulators.
3. Classify oral Hypoglycaemic agents according to their mechanism of action. Explain in detail about the pharmacology of Metformin.
4. Classify non-steroidal anti-inflammatory agents. Describe the pharmacology of cyclooxygenase 2 inhibitors.

II. Write notes on:

(6 x 5 = 30)

1. Describe about the role of phosphoinositol-3, 4-bisphosphate in signal transduction.
2. Describe the significance and usage of levodopa-carbidopa combination in treatment of Parkinsonism. Mention the adverse effects of levodopa.
3. Classify drugs used in treatment of dyslipidaemia. Write a note on HMG CoA reductase inhibitors.
4. What is preanaesthetic medication? What are the various classes of agents used in the same?
5. Describe about Uterine muscle relaxants.
6. Classify Bronchodilators. Write a note on adrenergic agonists.
