

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

(LQ 4271)

FEBRUARY 2020

Sub. Code: 4271

**B.PHARM. EXAMINATION
FOURTH YEAR
PAPER V – MEDICINAL CHEMISTRY - II**

Q.P. Code : 564271

Time: Three hours

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. a) Define and classify anti-malarial drug and write SAR of anti-malarial drugs.
b) Discuss the chemistry and degradation of penicillin and write the synthesis of Chloramphenicol.
2. a) Classify synthetic anti-bacterials and write the mechanism and SAR of sulphonamides.
b) Write the synthesis of any two sulpha drugs.

II. Write notes on:

(8 x 5 = 40)

1. Write note on anticancer antibiotics and their mechanism of action.
2. Write short note on Glucocorticoids.
3. Write note on oral Hypoglycemic agents.
4. Write short notes on combinatorial chemistry.
5. Write note on Anthelmintic drugs.
6. Classify antihypertensive drugs with example.
7. Classify local anti-infective agents. Write the structure and use of butoconazole and Griseofulvin.
8. Explain the chemistry of Oestrogen.

III. Short answers on:

(10 x 2 = 20)

1. Structure and use of Phenformin.
2. Structure and use of minoxidil.
3. SAR of tetracyclines.
4. Mechanism of action of antihyperlipidemic drugs.
5. Write the synthesis of cisplatin and give its uses.
6. Insulin preparations.
7. Antithyroid agents.
8. Classify antiarrhythmic agents.
9. Write the structure of any two antimetabolites.
10. Define Cardiotonic and Vasodilators.
