

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Pharmaceutical Chemistry - VI (Medicinal Chemistry - III)

Subject Code: 4PS06PCH6

Branch: B.Pharm

Semester: 6

Date: 05/05/2022

Time: 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 Attempt the following questions: (14)

- Define Antimycobacterial Agents.
- Classify Chemotherapeutic Agents.
- Draw structure of the Ciprofloxacin.
- Give IUPAC name of Sulphacetamide.
- Define Progestins.
- What is the difference between insulin and oral hypoglycemics?
- Classify Antimalarial agent.
- Name Thyroid Hormones.
- Define Glucocorticoids.
- Classify anticancer agent.
- Draw structure of the Metformin.
- Define Antiamoebic Agents.
- Enlist the uses of Methimazole.
- Draw structure of the Chloroquine.

Attempt any four questions from Q-2 to Q-8

Q-2 Attempt all questions (14)

- Classify Sulphonamide. Write about SAR of Cephalosporins. (07)
- Define steroids. Give the method of synthesis and enlist uses of – (07)
 - Amantadine
 - Mebendazole
 - Norfloxacin.

Q-3 Attempt all questions (14)

- What is carcinoma? Classify anticancer agent with examples and structures. (08)
- Draw structure and write uses of i) Pioglitazone ii) Trimethoprim iii) Sulfasalazine. (06)

Q-4 Attempt all questions (14)

- Describe Nomenclature and stereochemistry of steroids. (05)
- Give the method of synthesis & uses of - i) Thyroxine ii) Glipizide. (04)
- Write in brief mechanism of action of Macrolide with SAR of (05)



Aminoglycosides

- Q-5** **Attempt all questions** **(14)**
- a) Give synthesis, therapeutic uses & mechanism action of chloramphenicol. **(05)**
 - b) Write a note on Sulfonamides. **(05)**
 - c) Write a note on Penicillins. **(04)**
- Q-6** **Attempt all questions** **(14)**
- a) Write SAR of Tetracyclines. **(07)**
 - b) Write a note on Adrenocorticoids. **(07)**
- Q-7** **Attempt all questions** **(14)**
- a) Give a detail account of antifungal agents. **(05)**
 - b) Write short notes on drugs used for Mycobacterium infection. **(05)**
 - c) Write SAR of Estrogens. **(04)**
- Q-8** **Attempt all questions** **(14)**
- a) Share your knowledge about ant-amoebic agents. Give synthesis of metronidazole. **(07)**
 - b) Write SAR of Quinolines. Draw structure and write uses of Primaquine. **(07)**

