

C.U.SHAH UNIVERSITY

Summer Examination-2019

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

Subject Code: 4PS06PCH6

Branch: B. Pharm

Semester: 6

Date:30/04/2019

Time: 10:30 To 01:30

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.
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- Q-1 Elaborate the following terms: (14)**
- a) Chemotherapeutic agents (1)
 - b) Steroids (1)
 - c) Antibacterial agents (1)
 - d) Macrolides (1)
 - e) Antifungal (1)
 - f) Antibiotics (1)
 - g) Diabetes mellitus (1)
 - h) Examples of Anti HIV agents (1)
 - i) Antineoplastic agents (1)
 - j) Antiamoebic agents (1)
 - k) Anthelmintics (1)
 - l) Hormones (1)
 - m) Antithyroid drugs (1)
 - n) Antimycobacterial (1)

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

- Q-2 (14)**
- a Explain B-lactam antibiotics. Give the MOA and SAR of Penicillin. (7)
 - b Give the synthesis of Penicillin-G and Norfloxacin. (7)
- Q-3 (14)**
- a Classify Chemotherapeutic agents; write down the SAR of Sulfonamides. (7)
 - b Give the Synthesis for Sulphacetamide and Sulphasalazine (7)
- Q-4 (14)**
- a Write down the mechanism and SAR of Tetracyclines. (7)
 - b Define Quinolones. Give MOA and SAR. (7)



- Q-5** (14)
a Define and Classify Antithyroid drugs, explain Biosynthesis, storage and metabolism of thyroid hormones. (7)
b Give Synthesis of Methimazole and Carbimazole. (7)
- Q-6** (14)
a Write down the MOA of Insulin, explain oral hypoglycemic agents with examples. (7)
b Give examples of insulin preparations with Synthesis of Tolbutamide (7)
- Q-7** (14)
a Explain the Nomenclature and stereochemistry of steroids. (7)
b Classify Adrenocorticoids, Give the SAR for Estrogens. (7)
- Q-8** (14)
a Give the Classification , MOA of Antiprotozoal and Antiviral agents. (7)
b Give the Synthesis of Mebendazole and Thiotepea. (7)

