

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

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

Subject Code: 4PS06PCH6

Branch: B.Pharm.

Semester: 6

Date: 17/04/2017

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.
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Q-1

Answer the following questions.

- | | |
|--|---|
| a) Write example of steroidal hormone. | 1 |
| b) Why insulin is not administered orally? | 1 |
| c) Which element is essential for thyroid hormone synthesis? | 1 |
| d) What is the name of basic steroid nucleus? | 1 |
| e) Write the use of Mineralocorticoids. | 1 |
| f) Write the use of Glucocorticoids. | 1 |
| g) What are the basic functions of Estrogens in women? | 1 |
| h) What are the basic functions of Progestins in women? | 1 |
| i) What are the basic functions of Androgens in men? | 1 |
| j) What is co-trimoxazole? | 1 |
| k) Write the use of Albendazole. | 1 |
| l) Write the use of Ketoconazole. | 1 |
| m) Write example of antiviral agents. | 1 |
| n) Write example of Macrolides. | 1 |

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

Q-2

Attempt all questions

- | | |
|--|---|
| a) Write in detail about the various insulin preparations used in diabetes mellitus along with their advantages and disadvantages. | 7 |
| b) What are oral hypoglycemic agents? Classify and write their mechanism of action giving suitable examples from each class. | 7 |

Q-3

Attempt all questions

- | | |
|---|---|
| a) Describe the biosynthesis process of thyroid hormone. Write various thyroid related disorders in human and functions of thyroxine. | 7 |
| b) What are anti thyroid drugs? Classify them with example and write the synthesis of methimazole. | 7 |



- Q-4** **Attempt all questions**
- a) Write in detail nomenclature and stereochemistry of medicinally important steroids with examples. 7
- b) Write SAR of adrenocorticoids. 7
- Q-5** **Attempt all questions**
- a) Classify sulfonamides and write its SAR. 7
- b) Write SAR of quinolone antibiotic and synthesis of Ofloxacin. 7
- Q-6** **Attempt all questions**
- a) Write SAR of Penicillins. 7
- b) Write SAR of Aminoglycosides. 7
- Q-7** **Attempt all questions**
- a) Write a short note on Antimycobacterial Agents. 7
- b) Write a short note on Antifungal Agents. 7
- Q-8** **Attempt all questions**
- a) Write a short note on Antimalarial and Antiamoebic Agents 7
- b) Write a short note on Antineoplastic agents. 7

