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HC-014-003604 Seat No. _____

**Master of Pharmacy Management
(Sem. VI) (CBCS) Examination**

May / June - 2017

Pharmaceutical Chemistry - VIII

(Medicinal Chemistry - II)

(Old Course)

Faculty Code : 014

Subject Code : 003604

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Attempt three questions from each section.
(2) Questions 1 and 5 are compulsory.
(3) Tie each section separately.
(4) Figure to the right indicates full marks for the respective question.

SECTION – I

- 1** Answer the following questions : (Any **Seven**) **14**
- (1) Define sedative and hypnotics.
 - (2) What are anti-psychotic agents?
 - (3) Differentiate : General and local anesthetics.
 - (4) Explain term of epilepsy.
 - (5) What are NSAIDs ?
 - (6) Explain regulation of thyroid hormones.
 - (7) Discuss stages of anesthesia.
 - (8) What are hallucinogenic agents?
 - (9) What are enzyme p-450?
 - (10) Give synthesis of metformin.

- 2 (1) What are xenobiotics? How drugs metabolized in Phase-I metabolism? Explained the same with examples. 7
 (2) Discuss in detailed SAR of Tricyclic antidepressant. 6
- 3 (1) Differentiate between opioid and non-opioid analgesics. 7
 (2) Give SAR of Phenothiazine. Give synthesis of methadone. 6
- 4 (1) Give classification and mechanism of action of NSAIDs. Write detailed short note on DMARDs. 7
 (2) Give SAR of Estrogen and androgens. 6

SECTION – II

- 5 Answer the following questions : (Any Two) 14
 (1) Explain factors affecting drug metabolism and write a note on CYP450.
 (2) SAR of Morphine and pethidine
 (3) Write a note on anti-diabetic agents.
- 6 (1) Give synthesis of paracetamol, aspirin, ibuprofen. 7
 (2) What are cognition enhancers? Write short notes on drug used in treatment of Alzheimer's disease. 6
- 7 (1) SAR of benzodiazepines. 7
 (2) Write SAR of local anesthetic agents with respect to benzoic acid and aniline derivatives. 6
- 8 Answer the following :
 (1) Write a note on anti-thyroid agents and give SAR of adrenocorticoids. 7
 (2) Give SAR of Barbiturates. 6