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B. Pharm  
PH. 6.3

Sixth Semester Examination – 2008

PHARMACEUTICAL CHEMISTRY – VII  
(Medicinal Chemistry – II)

Full Marks – 70

Time : 3 Hours

Answer Question No. 1 which is compulsory  
and any **five** from the rest.

*The figures in the right-hand margin  
indicate marks.*

1. Answer the following questions in brief :

2 x 10

- (a) Write an example (with structure and nomenclature) of Dibenzazepines and mention its therapeutic use.

- (b) Give the basic differences between General Anaesthetics and Local Anaesthetics.
- (c) Write the structure and nomenclature of a drug which is used both as Antiviral agent and Antiparkinsonism agent.
- (d) Name two steroidal anti-inflammatory drugs.
- (e) Give the structure of a calcium channel blocker having a dihydropyridine ring.
- (f) Write the structure and name of a non-steroidal synthetic estrogen.
- (g) Write the mode of action of alprazolam.
- (h) Write the differences between Hypnotics and Sedatives.
- (i) What are androgens and anabolic agents ?
- (j) Write the structure and therapeutic uses of imipramine.



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Contd.

2. What are opioid analgesics ? Classify them.  
Write the synthesis of Methadone and Pethidine with their mode of action.

1+1+4+4

3. Write the synthesis and therapeutic uses of the following drugs :

3+3+4

(a) Glutethimide

(b) Lignocaine

(c) Furosemide.

4. Write short notes on :

5+5

(a) Antiparkinsonism drugs

(b) Carbonic Anhydrase Inhibitors.

5. (a) Describe how the structural changes in thiazides can be brought in a drug to enhance its diuretic activity.

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(b) Outline the synthesis of diazepam. 4

6. (a) Write the synthesis and therapeutic uses of Clonidine and Haloperidol. 6

(b) Classify the various barbiturates with examples on the basis of their onset and duration of action. 4

7. Write short notes on : 5+5

(a) Mercurial diuretics

(b) CNS stimulants.

8. (a) Define and classify the local anaesthetics. 3

(b) Write the mode of action, therapeutic uses and synthesis of progesterone from diosgenin. 7