

**B. Pharm 3rd Year 2nd Semester Examination-2022
Medicinal Chemistry-II**

FM-100

Time-3hrs

Answer any five questions taking atleast one from each group

Group-A

1. a) What are the steroidal hormones? Outline the mode of action & SAR of Adrenal cortical hormone & Androgens.
b) Write short note on hormonal contraceptives. 16 + 4 = 20
2. Discuss any three of natural estrogen structure & synthetic estrogen (any two) with the SAR of estrogens & progesterone. 20
3. Define and classify sedative hypnotics with examples. Discuss the structure & chemical name of each class of Barbiturate (at least one) & Benzodiazepines (any two). 4 + 10 + 6 = 20

Group-B

4. a) Classify general anesthetic with suitable examples (Along with Structure).
b) Write in details about synthetic procedure for Ketamine. 10 + 10 = 20
5. a) Classify local anesthetic with suitable examples.
b) Write note on following (Any two)
 - i) Surface / topical anesthesia
 - ii) Nerve block anesthesia
 - iii) Spinal anesthesia
- c) Write in details of synthetic procedure for Halothane. 5 + 10 + 5 = 20

Group C

6. How do you prepare: a) Ammonium chloride and b) Glycerol 8+12 = 20
7. Discuss with chemical equation the syntheses of the following drugs:
(a) Mannitol (b) Isosorbide, and (c) Urea 6+6+8 = 20