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(2124)

1709

**B. Pharmacy 7th Semester Examination**

**Pharmaceutical Chemistry-VII (Medicinal Chemistry-II) (OS)**

**HBP-409**

**Time : 3 Hours**

**Max. Marks : 80**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt one question from each of the sections A, B, C and D. Section E is compulsory.

**SECTION - A**

1. Write down the classification, mode of action, physiochemical properties and uses of androgens and anabolic steroids. (16)

OR

Write down the classification, mode of action, physiochemical properties and uses of adrenocorticosteroids.

**SECTION - B**

2. Discuss the classification, mode of action, structure activity relationship and uses of local anaesthetics. (16)

OR

Classify opioid analgesics. Discuss the mode of action, structure activity relationship and uses of morphine and its derivatives.

**SECTION - C**

3. Classify anticonvulsants. Discuss in detail hydantoin derivatives as anticonvulsant agents. Give the synthesis of phenytoin.

(16)

[P.T.O.]

OR

Classify anxiolytic drugs. Discuss in detail the mode of action, structure activity relationship and uses of Benzodiazepine derivatives. Give the synthesis of Diazepam.

**SECTION - D**

4. Classify diuretics. Discuss in detail the mode of action, structure activity relationship and uses of thiazide and thiazide like diuretics. Give the synthesis of chlorthiazide. (16)

OR

Write short note on anticoagulants.

**SECTION - E**

*Note:* Attempt all of the following questions.

5. Stanazolol belongs to the category of  
 (a) Androgen & Anabolic steroids (b) Estrogens  
 (c) both (d) none
6. Halothane is a drug acting as  
 (a) Inhalation anesthetics (b) Intravenous anesthetic  
 (c) both (d) none
7. Barbiturates exert their anxiolytic action by acting on  
 (a) GABA receptor (b) Na<sup>+</sup> channel  
 (c) Glutamate receptor (d) Serotonine receptor
8. Marphine belongs to the class of  
 (a) NSAIDS (b) Opoird Analgesic  
 (c) Diuretic (d) Anticoagulant

9. Which of the following is hydantoin anticonvulsant?  
 (a) Sodium valproate (b) Phenytoin  
 (c) Diazepam (d) none
10. Monoamine oxidase inhibitors are  
 (a) anticonvulsant agents (b) antidepressant agents  
 (c) both (d) none
11. Digitoxigenin belongs to the category of  
 (a) Cardenolides (b) Bufadienolides  
 (c) both (d) none
12. Acetazolamide diuretic is a class of  
 (a) Carbonic Anhydrase Inhibitor  
 (b) Thiazide & thiazide like diuretic  
 (c) High-ceiling diuretic  
 (d) none. (8×2=16)