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**B.PHARM**  
**(SEM-VII) THEORY EXAMINATION 2017-18**  
**PHARMACEUTICAL CHEMISTRY-VIII**  
**(MEDICINAL CHEMISTRY-III)**

*Time: 3Hours**Max. Marks: 100***Note:** Attempt all Sections. Assume missing data, if any.**SECTION A****1. Attempt all questions in brief: 10x2 = 20**

- a. What are steroidal drugs?
- b. What are beta lactam antibiotics?
- c. Classify Anti-HIV drugs.
- d. Give synthesis of any two alkylating agents.
- e. What is the role of sulfamoyl group in sulfonamides?
- f. Write a full form of NRTI and NNRTI.
- g. Give the synthesis of one sulphonamide drug.
- h. Discuss a mechanism of action of fluroquinolones.
- i. Differentiate between Anabolic and sex steroids.
- j. Write a use of Antiseptics and Disinfectants.

**SECTION B****2. Attempt any three of the following: 10 x 3 = 30**

- a. Write a note on nomenclature and stereochemistry of steroids.
- b. What are Anti-cancer drugs? Write a note on chemotherapy of cancer.
- c. Discuss a detail description of SAR of Tetracyclines.
- d. Write the synthesis and mode of action of sulphacetamide and nalidixic acid.
- e. Give the synthesis and mode of action of any four drug from the following.
 

1) Sulphamethoxazole	2) Sulfadiazine	3) Ofloxacin
4) PAS	5) Dapsone	6) Ethambutol

**SECTION C****3. Attempt all part of the following: 5 x 2 = 10**

- a. What are Adrenocorticoids? Explain their mode of action with example.
- b. Give the chemical name, synthesis and uses of Estradiol and Prednisolone.

**4. Attempt any one part of the following: 10 x 1 = 10**

- a. What are Cephalosporins? Classify them and discuss their SAR.
- b. Give the chemical name, synthesis and uses of Doxycycline and Clotrimazole.

- 5. Attempt any *one* part of the following: **10 x 1 = 10****
- a. Write a short note on Antibacterial agents. Give the synthesis of Isoniazid.
  - b. What are Quinolones? And discuss the development of fluoroquinolones.
- 6. Attempt any *one* part of the following: **10 x 1 = 10****
- a. What are Anti malarial Drugs? Discuss the role of Artemisia as Anti malarial.
  - b. Give the synthesis and uses of Primaquine and Albandazole.
- 7. Attempt *all* part of the following: **5 x 2 = 10****
- a. Give the synthesis and mode of action of Diloxanide and Pyrimethamine.
  - b. Give the synthesis and uses of Methotrexate and Carmustine.