

B PHARM
(SEM. VIII) THEORY EXAMINATION 2018-19
PHARMACEUTICAL CHEMISTRY- IX
(CHEMISTRY OF NATURAL PRODUCTS)

*Time: 3 Hours**Total Marks: 70***Note:** Attempt all Sections. If you require any missing data, choose suitably.**SECTION A**

- 1. Attempt all question in brief** (2X7=14)
- Write down the chemical test for carbohydrate.
 - Write the natural source of quercetin.
 - Write the structure of quinoline.
 - What are fungal toxins? Give two examples of fungal toxins
 - Write the uses and structure of citral.
 - Give two examples of natural antidiabetic drug
 - What is the significance of mass spectroscopy in herbal drug analysis?
 - What do you mean by secondary metabolites? Give the example

SECTION B

- 2. Attempt any three of the following** (7X3=21)
- Write a note on qualitative tests for the detection of plant constituents.
 - Discuss isolation and chemistry of reserpine.
 - Define terpenoids. Write the structure elucidation of camphore.
 - Discuss in detail the isolation and chemistry of caffeine.
 - Write an exhaustive note on herbal anticancer agents

SECTION C

- 3. Attempt any one part of the following** (7X1=7)
- Discuss the basic metabolic pathways of alkaloids and terpenes.
 - Describe general methods of isolation and separation of plant constituents
- 4. Attempt any one part of the following** (7X1=7)
- Define alkaloids. Discuss in detail about isolation and chemistry of atropine.
 - Give structure elucidation of papaverine.
- 5. Attempt any one part of the following** (7X1=7)
- Explain the isolation and chemistry of quercetin.
 - Write the isolation and chemistry of Digoxin.
- 6. Attempt any one part of the following** (7X1=7)
- Write the isolation and structure elucidation of β carotene
 - Discuss isolation and chemistry of α -Tocopherol.
- 7. Attempt any one part of the following** (7X1=7)
- Write note on Natural allergens.
 - Write role of natural products in drug discovery and development.