

BACHELOR OF PHARMACY EXAMINATION, 2017

(B. Pharm 2nd Year)

SECOND SEMESTER EXAM 2017 (Old)

Pharmaceutical Chemistry – VI

Time: Three hours.

Full Marks:100

Answer any *five* questions taking at least two from each group

GROUP – A

1. What are piperidine and pyridine alkaloids? Classify with example. Describe different alkaloids of these classes with their source, structural features and therapeutic uses.

10+10 = 20

2. Describe three different phyto constituents from each of the following chemical group with their chemical structure and therapeutic uses :

- a) Flavonoids
- b) Tannins
- c) Saponin

7+7+6 = 20

3. Explain the qualitative test procedures for the following :

5x4 = 20

- a) Quinoline alkaloids
- b) Tropane alkaloids
- c) Glycosides
- d) Carbohydrates

TIME: 3 hrs

F.M.-100

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PHARMACEUTICAL CHEMISTRY-VI

GROUP - B

4. a) Define natural products with their examples. Discuss in brief the traditional system of Indian medicines.

b) What are the factors and methodology to be considered for natural products and drug discovery?

c) Mention the structure and specific use of Physostigmine, Morphine, Cocaine, Camptothecin, Nicotine and Artemesinine.

4+6+10=20

5. a) Define and classify terpenoids with examples.

b) Explain with a scheme how C-C bond formation takes place in terpenoid biosynthesis (upto C₂₀ carbon atoms)?

4+8+8=20

6. a) Discuss the structure, source and uses of the following (any four):

i) Myrcene ii) Terpineol iii) Camphor iv) Geraniol v) Limonene vi) Menthol

b) Draw a scheme of isolation of Capsanthin and Lycopene, also mention their color reaction for identification.

10+5+5=20

7. a) Define and classify Carotenoids with examples.

b) Discuss various types of Carotenoids ?

c) Write a brief note on Pesticides of natural origin.

5+5+10=20