Printed Pages: 01 **Sub Code: BOP 481**

Paper Id: | 1 | 5 | 0 | 2 | 1 | 6 | **Roll No.** | | | | | | | | | | |

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

Time: 3 Hours ***Total Marks: 70***

Note: Attempt all Sections. If you require any missing data, choose suitably.

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SECTION A

1. Attempt all question in brief **(2X7=14)**

a) Write down the chemical test for carbohydrate.
b) Write the natural source of quercetin.
c) Write the structure of quinoline.
d) What are fungal toxins? Give two examples of fungal toxins
e) Write the uses and structure of citral.
f) Give two examples of natural antidiabetic drug
g) What is the significance of mass spectroscopy in herbal drug analysis?
h) What do you mean by secondary metabolites? Give the example

SECTION B

2. Attempt any three of the following **(7X3=21)**

a) Write a note on qualitative tests for the detection of plant constituents.
b) Discuss isolation and chemistry of reserpine.
c) Define terpenoids. Write the structure elucidation of camphore.
d) Discuss in detail the isolation and chemistry of caffeine.
e) Write an exhaustive note on herbal anticancer agents

SECTION C

3. Attempt any one part of the following **(7X1=7)**

a) Discuss the basic metabolic pathways of alkaloids and terpenes.
b) Describe general methods of isolation and separation of plant constituents

4. Attempt any one part of the following **(7X1=7)**

a) Define alkaloids. Discuss in detail about isolation and chemistry of atropine.
b) Give structure elucidation of papaverine.

5. Attempt any one part of the following **(7X1=7)**

a) Explain the isolation and chemistry of quercetin.
b) Write the isolation and chemistry of Digoxin.

6. Attempt any one part of the following **(7X1=7)**

a) Write the isolation and structure elucidation of βcarotene
b) Discuss isolation and chemistry of α -Tocopherol.

7. Attempt any one part of the following **(7X1=7)**

a) Write note on Natural allergens.
b) Write role of natural products in drug discovery and development**.**

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