

Printed Pages: 02

Paper Id:

150262

Sub Code: PHARM-482

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B.PHARM
(SEM-VIII) THEORY EXAMINATION 2018-19
NATURAL PRODUCTS

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Explain *all* questions in brief. 2 x10 = 20**
- a. Secondary metabolites.
 - b. Acyclic monoterpenoids.
 - c. Saponin glycosides.
 - d. Pseudo alkaloids.
 - e. Podophyllotoxin.
 - f. Proto alkaloids.
 - g. Properties of tannins.
 - h. Lignans.
 - i. Cosmeceuticals.
 - j. Mayer's reagent.

SECTION B

- 2. Attempt any *three* of the following: 10 x 3 = 30**
- a. Describe the tricarboxylic acid cycle.
 - b. Discuss the isolation and chemistry of digoxin.
 - c. Write a note on fungal toxins with suitable examples.
 - d. Give the extraction and isolation methods of menthol and α - pinene.
 - e. Enlist different antidiabetics agents of natural products with their properties.

SECTION C

- 3. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Write the shikimic acid pathway and their importance.
 - (b) Write the extraction and chemistry of morphine.
- 4. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Give the classification and properties of natural allergens.
 - (b) Write the extraction and isolations of quassinoids.
- 5. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Describe anticancer agents of natural origin.
 - (b) Write in details of spectral approaches to simple molecules of natural origin.
- 6. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Give the method of isolation and chemistry of quercetin.
 - (b) Write a note on photosensitizing agents.
- 7. Attempt any *one* part of the following: 10 x 1 = 10**
- (a) Write the chemistry of quinine alkaloids.
 - (b) Explain the biogenetic investigations of terpenes with example.