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**BP 405 T**

BINA CHOWDHURY CENTRAL LIBRARY  
(GIMT & GIPS)

Azara, Hatkhowapara,

Guwahati - 781017

Roll No. of candidate

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**2019**

**B.Pharm. 4th Semester End-Term Examination**

**PHARMACOGNOSY AND PHYTO CHEMISTRY - I**

**(New Regulation)**

**(w.e.f 2017-2018)**

Full Marks – 75

Time – Three hours

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The figures in the margin indicate full marks  
for the questions.

1. Answer ALL questions.

(A) Multiple choice questions : (1 × 10 = 10)

(i) Who had written materia medica

(a) Charka (b) Sushnuta

(c) Aristotle (d) Dioscoride

(ii) Zn, Mo and B are known as

(a) Primary nutrient

(b) Secondary nutrient

(c) Trace element

(d) None of these

[Turn over

(iii) Which one is responsible for gel strength of Agar

- (a) Agarose
- (b) Agaropectin
- (c) Galactose
- (d) Cellulose

(iv) Granulated honey contains

- (a) Invertose
- (b) Crystallised dextrose
- (c) Dextrin
- (d) Maltose

(v) Calcareous soil contains lime

- (a) 20%
- (b) 30%
- (c) 40%
- (d) 50%

(vi) 1 gm of Lycopodium spore contains spore

- (a) 94,000
- (b) 98,000
- (c) 92,000
- (d) 62,000

(vii) Example of 2° plant nutrient

- (a) N
- (b) Zn
- (c) Mg
- (d) Mn

(viii) Which one is marine cardiovascular agent

- (a) Holotoxin
- (b) Anthopleurins
- (c) Digitoxin
- (d) Ciguatoxin



(ix) Gold beater's skin test is specific for

- (a) Tannin (b) Resin  
(c) Volatile oil (d) Flavonoid

(x) Family of jute is

- (a) Bombycidae  
(b) Tiliaceae  
(c) Bovidae  
(d) Linaceae

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(B) Objectives type questions : (10)

(a) Who first published the anatomical atlas of crude drugs? (1)

(b) Write down the main functions of stomata. (1)

(c) Mention few identification test for Alkaloid. (1)

(d) Define edible vaccine. (1)

(e) Give two examples of herbicide. (1)

(f) Give biological source and uses of following. (1 × 5)

(i) Cotton

(ii) Acacia

(iii) Jute

(iv) Hemp

(v) Castor oil.

2. Answer any SEVEN from the following : ( $7 \times 5 = 35$ )

- (a) Differentiate organized and unorganized drug. (5)
- (b) Define and classify alkaloi. (1+4)
- (c) Write about the role of pharmacognosy in Ayurveda. (5)
- (d) Describe the Lycopodium spore method. (5)
- (e) Write about the novel medicinal agents from marine source. (5)
- (f) Describe the history and development of pharmacognosy. (5)
- (g) Define plant tissue culture. Enumerate the nutritional requirements and maintenance of plant tissue culture. (2+3)
- (h) Write short notes on : ( $2.5 \times 2 = 5$ )
  - (i) Natural allergens.
  - (ii) Polyploidy.
- (i) Write down biological sources, evaluation of therapeutic uses and common utility of following drugs. ( $1 \times 5$ )  
Casin, Gulatin, Papsin, Chaulmoogra Oil, Bees Wax.

3. Answer any TWO from the following : ( $2 \times 10 = 20$ )

- (a) Describe various classification of crude drugs with example. (10)
- (b) Define evaluation of crude drugs. Describe microscopic evaluation. (3+7)
- (c) Enumerate advantages of cultivation. Describe various pest control method. (3+7)