

Roll No. 

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-4)

**PHARMACOGNOSY-III**

Subject Code : BPHM-403

Paper ID : [D1142]

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.

**SECTION-A**

1. a. What is the difference between Arishtas and avlehas?  
b. Give biological source of senna and dog senna. Also give the differentiating character between two.  
c. Write two important chemical constituents and marketed formulations of shankpushpi.  
d. Write the complete biological source, one major constituent and use of Thevetia.  
e. Draw the structures of guggulsterone E and scillaridin A.  
f. How will you differentiate *Digitalis purpurea* from *Verbascum thapsi*?  
g. What are lehyas and churanas?  
h. What is the difference between cardenolides and bufadenolides? Also draw their basic nucleus.  
i. Give a chemical test to differentiate between *Ammi majus* and *Ammi visnaga*.  
j. Give two formulations of guggul along with their manufacturers.  
k. Give complete biological source, uses and a formulation of Neem.  
l. Name any two antidiabetic drugs with their complete biological source.

- m. A drug gives positive Modified Borntrager's test. Explain its response to Borntrager's test.
- n. What is the difference between vatis and gutikas?
- o. Arrange the following in increasing order of the purgative/cathartic action :  
Senna, Cascara, Aloe, and Rhubarb

### SECTION-B

- 2. Discuss the chemical constituents (with structures) of brahmi and gilo.
- 3. Discuss various chemical tests for identification of rhubarb, aloe and psoralea .
- 4. Discuss the importance of Shatavari in terms of its chemical constituents and pharmacological uses.
- 5. Give the chemical constituents along with structures, important uses and adulterants of rasna and punarnava.
- 6. How Bhasmas are prepared?

### SECTION-C

- 7. Discuss the complete pharmacognosy of Digitalis along with its adulterants and differentiating characters.
- 8. Write a note on the chemical constituents along with structures and uses of the following drugs :
  - (a) Licorice                      (c) Gokhru
  - (b) Amla                              (d) Lahsun
- 9. Write down the complete biological source, chemical constituents (with structures) and one major use of the following :
  - (a) Chitrack                      (c) Gurmar
  - (b) Dioscorea                      (d) Nagarmotha
- 10. Explain in detail the different parameters used to standardize an Ayurvedic crude drug.