



Roll No.

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2012 to 2016) (Sem.-4)

PHARMACOGNOSY-III

Subject Code : BPHM-403

M.Code : 46233

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. Answer briefly :

- a) Draw the structures of sennoside A and guggulsterone E.
- b) Name two controversial sources of shankhpushpi.
- c) Name the steps involved in preparation of Bhasmas.
- d) Give biological source and one major use of Palash and Adusa.
- e) Draw structure of psoralen and strophanthidin.
- f) Give main chemical constituents (along with structures) of saffron.
- g) Why Modified Borntrager's test is performed? How it is different from Borntrager's test?
- h) Write two tests used to detect the presence of unsaturated lactone ring in a cardiac glycoside.
- i) Give biological source and important chemical constituent (with structure) of kalmegh.
- j) Which is the most common adulterant of digitalis and how will you identify it microscopically?



- k) Give important uses of Rasna and Kantkari.
- l) Define lehyas. Give two examples of it.
- m) Give two marketed formulations each of Kalijiri and Apamarg.
- n) Give characteristic microscopic features of senna.
- o) What do you understand by the term standardization?

SECTION-B

- 2. Write a note on the chemical constituents (with structures) of neem.
- 3. Discuss about Brahmi.
- 4. Explain and draw a well labelled diagram of transverse section of licorice.
- 5. Write about the source and chemical constituents of chirata and arjuna.
- 6. Discuss about the pharmacological properties of shatavar.

SECTION-C

- 7. a) Write an elaborated note on Arishtas and Asvas. How they are different from each other? 5
- b) Write an elaborated note on ginseng. 5
- 8. Discuss the chemical constituents (with structures) and uses of the following :
 - a) Dioscorea 3
 - b) Punarnava 4
 - c) *Ammi visnaga* 3
- 9. How will you standardize a herbal product? Elaborate on various steps involved in it. 10
- 10. Write about source, chemical constituents (with structures) and uses of Gilo and Bach. 10

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.