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Total No. of Pages : 02

Total No. of Questions : 21

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

**PHARMACOGNOSY-III**

Subject Code : BPHM-403

M.Code : 46233

Time : 3 Hrs.

Max. Marks : 80

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY carrying THIRTY marks.
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**

Answer the following :

- Q1. Write a common adulterant of senna. How will you differentiate it from genuine senna?(2)
- Q2. Differentiate between Gutikas and Vattis. (2)
- Q3. Draw chemical structures of amarogentin and gymnemic acid. (2)
- Q4. Give complete biological source and uses of: (4×2=8)
- (i) Neem      (ii) Ashoka      (iii) Palash      (iv) Shilajit
- Q5. Draw chemical structure of gentiopicrotin and strophanthidin. (2)
- Q6. Give the complete biological source and uses of Manchurian Licorice. (2)
- Q7. Write the procedure for testing cardiac glycosides using Keller-Kiliani test. (2)
- Q8. Write the biological name of most common adulterant of rhubarb and chemical test to differentiate it from genuine rhubarb. (2)
- Q9. Give complete biological source and chemical constituents of kantkari. (2)

- Q10. A drug gives positive Modified Borntrager's test. How it will respond to Borntrager's test? Explain your answer. (2)
- Q11. Name the common adulterant of digitalis. How will you differentiate it from genuine digitalis? (2)
- Q12. What is the difference between cardenolide and bufadenolide? Draw their basic chemical moiety and give one example of drug (complete biological source) from each class. (2)

### SECTION-B

- Q13. Discuss the T.S. of cascara and draw a well labelled diagram.
- Q14. Define Asvas and Arishtas. What is the difference between two? Also highlight their methods of preparation.
- Q15. Discuss various chemical tests used to differentiate between different varieties of aloes.
- Q16. Discuss source, chemical constituents and uses of Rhubarb and Kalmegh.
- Q17. What do you understand by the holistic concept in Ayurvedic treatments?

### SECTION-C

- Q18. Elaborate the pharmacognosy of Senna. (10)
- Q19. Write biological source, chemical constituents and uses of : (4,3,3)
- (i) Brahmi (ii) Gilo (iii) Ammi majus
- Q20. Write a detailed note on Guggul and Bach. (10)
- Q21. Explain the term Standardization. Discuss in detail the standardization of herbal or Ayurvedic products. (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.**