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Total No. of Pages : 02

Total No. of Questions : 10

B.Pharma (2011 to 2016) (Sem.-3)**PHARMACOGNOSY-II****Subject Code : BPHM-302****Paper ID : [D1123]****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 has to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students has to attempt any **THREE** questions.

SECTION-A**1. Answer briefly :**

- a) Define tannins. Classify them with examples.
- b) Keller-Kiliani test is used to detect the presence of which class of phyto-constituents? Also write how it is performed.
- c) A drug gives positive modified Borntrager's test. How will it respond to simple Borntrager's test?
- d) What are resenes? Give one example of a plant drug (with complete biological source) used for its high resene content.
- e) Define pharmaceutical aid. Give two examples each of plants used as colouring and emulsifying agents.
- f) Write the uses of Nylon and Asbestos.
- g) Give biological source and uses of Musk.
- h) Explain Sfumatrice and Enfleurage methods of volatile extraction.
- i) Why salt-gelatin test is more reliable than simple gelatin test while testing for the presence of tannins in a given extract.
- j) Write source and uses of Myrobalan.
- k) Give chemical constituents and uses of Cinnamon.

- l) Draw chemical structures of podophyllotoxin and THC.
- m) Differentiate between pathological and physiological resin. Also give one example of each.
- n) Explain Gold beater's skin test.
- o) Give biological source and chemical constituents of cassia and jalap.

SECTION-B

- 2. Discuss about the commercial importance of lemon grass and sandalwood.
- 3. Discuss the biological source, chemical constituents and uses of turmeric and Valerian.
- 4. Write a note on the source, macro- and microscopic characters, uses and chemical tests for cotton fiber.
- 5. Discuss various methods for reparation of extract.
- 6. Write a note on natural suspending agents.

SECTION-C

- 7. Write detailed note on pharmacognosy of Benzoin.
- 8. Give a comparative profile of Indian and American podophyllum on basis of macro-, microscopic characters, chemical constituents and chemical tests.
- 9. Give biological source, chemical constituents and uses of :
 - i. Asafoetida
 - ii. Catechu
 - iii. Clove
 - iv. Chenopodium
- 10. What are volatile oils? Elaborate on various methods used to extract them.