

**Roll No.**

**Total No. of Questions : 10**

**B.Pharma (2012 to 2016) (Sem.-3)**

## PHARMACOGNOSY-II

**Subject Code : BPHM-302**

**M.Code : 46222**

**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 podophyllotoxin and THC.
- (b) Define Cohobation.
- (c) How many vittae and vascular bundles are present in single mesocarp of fennel?
- (d) Give one example each of Pyrogallol tannin and Phlobaphenoid containing drug.
- (e) Explain the use salt-gelatin test. Why it is considered better than simple gelatin test?
- (f) Give the phytochemical class of the following phytoconstituents :
  - (i) Kaempferol
  - (ii) Morphine
  - (iii) Caryophyllene
  - (iv)  $\beta$ -Sitosterol
- (g) Give the chemical composition of Mayer's and Wagner's reagent.
- (h) A sample of tolu balsam has been adulterated with colophony. Which chemical test will you perform to detect the presence of colophony?
- (i) How will you detect the presence of flavonoids and steroids in a given sample of crude drug?
- (j) Give biological source of mint and garden mint.

- (k) Write major constituent and use of chenopodium oil.
- (l) How will you detect presence of cardenolide?
- (m) Give complete biological source of two plants used as colorants.
- (n) Give important uses of asbestos and glass wool.
- (o) Name different chromatographic methods used for purification and isolation of phytoconstituents.

### SECTION-B

2. Write note on clove and jalap.
3. Write about the chemical constituents (with structures) of podophyllotoxin and asafoetida.
4. Explain the mechanical methods of volatile oil extraction.
5. Discuss about preparation and applications of gelatin.
6. You are given a crude drug. How will you perform its phytochemical screening for the alkaloids, cyanogenetic glycosides and saponins?

### SECTION-C

7. Write an elaborated note on benzoin. (10)
8. Discuss the chemical constituents (with structures) and uses of the following :
  - (a) Musk (3)
  - (b) Myrobalan (4)
  - (c) Lemon grass (3)
9. Elaborate on the source, types, microscopic characters, chemical composition, identification tests and uses of cotton. (10)
10. Write about source, chemical constituents (with structures) and uses of Gambir and Valerian. (5,5)

**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.**