

# UKA TARSADIA UNIVERSITY

B.Pharm. (4th Semester)

Subject :030020404-Pharmacognosy II

Duration : 3 Hours

Max. Marks : 70.

## Instructions:

1. Attempt all questions.
2. Write each section in a separate answer book.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks allocated to that question.
5. Draw diagrams/figures whenever necessary.

## SECTION - 1

### Q-1 (A) Do as directed.

[07]

- I) What is extract?
- II) Which chemical test used for detection of fixed oil.
- III) Enlist chemical test used for detection of alkaloids.
- IV) Write biological source of asafoetida.
- V) Write morphology of mentha leaf.
- VI) What is oleo-gum-resin?
- VII) Which constituent responsible for pungent test of capsicum

### Q-1 (B) Answer the following in brief. (Any 4)

[08]

- I) Write biological source, preparation and uses of papain
- II) What is the difference between Siam and Sumatra benzoin.
- III) Write detection tests for phenolic compounds.
- IV) Write biological source of diastase and pepsin.
- V) Write chemical constituents and uses of nutmeg.
- VI) Describe morphology of cassia bark.

### Q-2 Answer the following.

[10]

- A) Enlist general techniques of obtaining volatile oil and describe any one in brief?

**OR**

- A) Describe pharmacognostic study of eucalyptus leaf  
B) Define and classify resins with example?

**OR**

- B) Write biological source, constituents, chemical test and uses of turmeric.

### Q-3 Answer the following in detail. (Any 2)

[10]

- A) Write a note on phytochemical screening of plant extracts.
- B) Write biological source, constituents, chemical test and uses of Himalayan may apple.
- C) Describe microscopy of mentha leaf.

## SECTION - 2

### **Q-4 (A) Do as directed.**

[07]

- I) Which constituent responsible for sweet test of liquorice?
- II) Which drug used in idiopathic vitiligo?
- III) Write hydrolyzed products of purpurea glycoside-A.
- IV) Write biological source of yellow oleander.
- V) Write allied drugs of dioscorea.
- VI) What is the common name of chirata and ginseng?
- VII) Write chemical constituents of kalmegh.

### **Q-4 (B) Answer the following in brief. (Any 4)**

[08]

- I) Write properties and enlist chemical test for glycoside?
- II) Write difference between Tinnevely and Alexandrian Senna.
- III) Describe diagnostic macroscopy of Rhubarb.
- IV) What is cardiac glycoside?
- V) Describe microscopic features of Squill.
- VI) Write chemical constituents of ginseng and dioscorea.

### **Q-5 Answer the following.**

[10]

- A) Describe pharmacognostic study of liquorice root.

OR

- A) What is the role of plant based drugs on national economy?
- B) Describe biogenesis of diosgenin.

OR

- B) Describe acetate mevalonate pathway.

### **Q-6 Answer the following in detail. (Any 2)**

[10]

- A) Describe microscopy and draw a well labeled T. S. of linseed.
- B) Write pharmacognosy of digitalis.
- C) Write biological source, chemical constituents and uses of rhubarb and senega.