

UKA TARSADIA UNIVERSITY

B.Pharm. (4th Semester)

Subject :030020404-Pharmacognosy II

Time : 10 am to 1 pm

Duration : 3 Hours

Date : 28/05/2014

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) Define resenes. Give two examples of resene containing drugs.
- II) Write a chemical test for detection of flavonoids.
- III) Write down types of oil glands present in plants.
- IV) Give botanical source of loban.
- V) How to destroy pungency of ginger?
- VI) What is a botanical source of devil's hung ?
- VII) Write a source of diastase.

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

[08]

- I) Write down the method of preparation of the papain enzyme.
- II) Describe in brief chemical constituents and uses of turmeric.
- III) What is capsaicin? Which drug shows presence of capsaicin.
- IV) Write down combined umbelliferone test. Which constituent give this test positive?
- V) Write medicinal uses of chenopodium oil and sandalwood oil.
- VI) Define volatile oils. Enumerate methods used for isolation of volatile oils from plants.

Q-2 Answer the following.

[10]

- A) Discuss general characteristics of umbelliferous fruits.

OR

- A) Draw a well labeled morphological and microscopical diagram (T.S.) of cinnamon bark.
- B) Write down sources, family, chemical constituents and uses of podophyllum.

OR

- B) Write a note on preparations of marihuana.

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

[10]

- A) Write a pharmacognostic profile of valerian.
- B) Enlist and discuss adulterants of clove.
- C) Describe general chemical test of alkaloids and tannins.

SECTION - 2

Q-4 (A) Do as directed.

[07]

- I) Write a botanical source and family of yam.
- II) Write down two adulterants of senna.
- III) Name the drug which is used in formulation of sudarshan churna.

- IV) Write the names of two drugs used in leucoderma.
- V) Write two names of drugs belongs to glucosinolates.
- VI) Enumerate different species of ginseng.
- VII) Write down Botanical source of jethimadh.

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

- I) Write two examples of desoxy sugars. .Write a chemical test for detection of desoxy sugar.
- II) Differentiate between Indian rhubarb and rhapontic rhubarb.
- III) Differentiate the O-glycoside and C-glycoside by chemical test.
- IV) Differentiate between two varieties of *ammi*.
- V) Write down botanical source and chemical constituents of kutki.
- VI) Define saponin glycoside. Write its properties in brief.

Q-5 Answer the following.

- A) Define glycosides. Discuss its properties and classification with suitable examples.

OR

- A) Discuss in detail about cyanogenetic glycoside.
- B) Write in brief about contribution of plant based drugs on national economy.

OR

- B) Describe pharmacognostic study of senna leaf.

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

[10]

- A) Describe shikimic acid pathway. Enumerate secondary metabolites produced by shikimic acid pathway.
- B) Differentiate between *Digitalis purpurea* and *Digitalis lanata*.
- C) Discuss in detail about investigation techniques of biosynthetic pathways