

Seat No.:-----

Enrolment No.:-----

UKA TARSADIA UNIVERSITY

Maliba Pharmacy College

B. Pharm 4th Semester Internal Examination April 2013

030020404- Pharmacognosy-II

Time: 10:00 a.m. To 1:00 p.m.

Max. Marks: **70**

Date: 03/05/2013

Instructions:

- Question no. **1 is compulsory.**
- From Q.2 to Q.7 attempt any **four** questions.
- Make suitable assumption whenever necessary.
- Figures to the right indicate full marks.

- Q.1** (a) Answer the following: (**any six**) **06**
- 1 What is the mechanism of extraction?
 - 2 Enlist chemical test used for detection of carbohydrates.
 - 3 Write morphology of cassia bark.
 - 4 Write biological source of trypsin and pancreatin.
 - 5 Which pigment gives color to the red squill?
 - 6 How much percentage of fixed oil present in almond?
 - 7 What is oleo-gum-resin?
 - 8 Which constituent responsible for pungent test of capsicum.
- (b) Describe in brief: (**any four**) **08**
- 1 Write chemical test for detection of tannins and phenolic compounds.
 - 2 Describe morphology of valerian.
 - 3 Write biological source, preparation and uses of papain.
 - 4 Write difference between *D. lanata* and *D. purpurea*.
 - 5 What is the difference between Siam and Sumatra benzoin?
 - 6 Write chemical constituents and uses of nutmeg.
- Q.2** (a) Describe basic metabolic pathway of shikimic acid. **04**
- (b) Describe pharmacognostic study of mentha leaf. **05**
- (c) Enlist general techniques of obtaining volatile oil and describe any one in brief? **05**
- Q.3** (a) Define and classify resins with example? **04**
- (b) Write a note on phytochemical screening of plant extracts. **05**
- (c) Define, classify with example and give isolation method of glycoside. **05**
- Q.4** (a) Draw a well labeled T.S. of clove bud. **04**
- (b) Write biological source, constituents, chemical test and uses of turmeric. **05**
- (c) Describe pharmacognostic study of eucalyptus leaf. **05**
- Q.5** (a) Describe mevalonic acid pathway. **04**
- (b) Write biological source, constituents, chemical test and uses of podophyllum. **05**
- (c) Describe pharmacognostic study of senna leaf. **05**
- Q. 6** (a) Describe biogenesis of sennosides. **04**
- (b) Write biological source, chemical constituents and uses of rhubarb. **05**
- (c) Describe pharmacognostic study of drug which is used in congestive heart failure. **05**
- Q.7** (a) Describe biogenesis of diosgenin. **04**
- (b) Give a brief account on plant based industries in India. **05**
- (c) Write biological source, constituents, chemical test and uses of ginger. **05**