

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**C. U. SHAH UNIVERSITY**

**B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER • 2015**

**Subject Code: 4PS04PCOG3**

**Date:**

**Subject Name: Pharmacognosy-III**

**Time:**

**Total Marks: 70**

**Instructions:**

- 1. Attempt all questions and question 1 and 4 is compulsory.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate marks.**

**SECTION-I**

- Q.1.** (a) Define and classify Enzyme **02**  
(b) Define Tannins. **02**  
(c) Draw structure and chemical test for Diosgenin. **02**  
(d) Write the chemical tests for saponins glycosides. **01**
- Q.2.** (a) What is Glycoside? Give their classification in detail. **05**  
(b) Enlist the drugs containing saponins glycoside. Write a note on plant source of Diosgenin. **05**  
(c) Write B.S., Chemical constituents, uses and different varieties of capsicum. **04**
- OR
- Q.2.** (a) Describe the pepsin in detail. **05**  
(b) What are anthraquinone and their reduced forms? Write mechanism of action pertaining to their purgative action. **05**  
(c) Enlist the bitter glycoside containing drugs. Detail information on picrorrhiza. **04**
- Q.3.** (a) Differentiate between Digitalis purpurea and Digitalis lanata. **05**  
(b) Write a note on source, chemical constituents, identification tests and adulterants of Asafoetida. **05**  
(c) Enlist the drugs used in leucoderma. Explain any one. **04**
- OR
- Q.3.** (a) Write B.S., family, Morphology, C. C. and uses of different varieties of senna. **05**  
(b) Write a note on Indian Squill and European squill. **05**  
(c) Explain the enzyme known as vegetable pepsin. **04**

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## SECTION-II

- Q.4.** (a) Describe the properties of enzymes **02**  
(b) Comment: Pale catechu gives gambier fluorescence test positive. **02**  
(c) Comment: Asafoetida gives combined umbelliferone test. **02**  
(d) Write chemical structure and chemical test for sennoside B. **01**
- Q.5.** (a) Differentiate between Hydrolysable tannins and Condensed tannins **05**  
(b) Write the properties and method of isolation of glycoside. **05**  
(c) Write B.S., Family, Chemical constituents, uses and Microscopy of Liquorice. **04**

OR

- Q.5.** (a) Define and classify resins with examples. **05**  
(b) Write a note on B.S., C.C., Use and method of preparation of Aloe. **05**  
(c) Define and classify cardiac glycosides. Write chemical tests for their identifications. **04**
- Q.6.** (a) Differentiate Khadir v/s Gambier. **05**  
(b) Write a note on Himalayan may-apple **05**  
(c) Differentiate Black mustard and White mustard. **04**

OR

- Q.6.** (a) What are Sumatra and Siam Benzoin? Give the distinguishing tests. **05**  
(b) Write a note on cyanogenetic glycoside. **05**  
(c) Write a note on flavanoids containing drug. **04**

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