

GUJARAT TECHNOLOGICAL UNIVERSITY**B.Pharm – SEMESTER-III – EXAMINATION – SUMMER-2016****Subject Code: 230006****Date: 14/06/2016****Subject Name: Pharmacognosy -II****Time: 2:30 PM to 5:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Describe the common microscopical & morphological characters in umbelliferous fruits. **06**
(b) Give biological source, family, chemical constituents, uses and adulterants of clove. **05**
(c) Enlist various methods for the production of volatile oil. Describe one of them. **05**
- Q.2** (a) How can you differentiate between Cinnamon bark from cassia bark. **06**
(b) How can you differentiate between Fixed oil from Volatile oil. **05**
(c) How can you differentiate between Indian Dill from European Dill. **05**
- Q.3** (a) Define Pharmaceutical Aids. Classify them with suitable examples **06**
(b) Write Short note on Gelatin. **05**
(c) Give details of following tests **05**
(i) Matchstick's test (ii) Combined umbelliferone test
- Q.4** (a) Define Tannins. Classify tannins with suitable examples. **06**
(b) Give biological source, family, chemical constituents and uses of Black catechu. **05**
(c) Draw well labeled sketch of Morphology and Microscopy (T.S.) of Fennel. **05**
- Q.5** (a) Enlist different types of phytoconstituents. Elaborate preliminary phytochemical screening of glycosides and saponins. **06**
(b) Differentiate between cardenolides and bufadenolides. **05**
(c) Write short note on different types of extracts along with suitable examples. **05**
- Q. 6** (a) Define and classify surgical fibres. Describe preparation and chemical identification of wool. **06**
(b) Write a brief note on Absorbent cotton. **05**
(c) Write short note on Natural colours. **05**
- Q. 7** (a) Define and classify Resins with suitable examples. Enlist the various physical and chemical properties of resins. **06**
(b) Give biological source, family, chemical constituents, uses and adulterants of Turmeric. **05**
(c) Discuss in detail about pharmacognostical profile of Podophyllum. **05**
