

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm - SEMESTER- II • EXAMINATION – SUMMER 2017**

**Subject code: 220005**

**Date: 12/06/2017**

**Subject Name: Pharmacognosy-I**

**Time: 10:30 AM to 01:30 PM**

**Total Marks: 80**

**Instructions:**

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

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|-------------|--|-----------|
| <b>Q.1</b>  | (a) Define Pharmacognosy. Which are the different sources of crude drug  | <b>06</b> |
|             | (b) What is scope of Pharmacognosy   | <b>05</b> |
|             | (c) Write note on Pharmacological classification of crude drug   | <b>05</b> |
| <b>Q.2</b>  | (a) Give the applications of Plant tissue culture  | <b>06</b> |
|             | (b) Define Polyploidy and explain the types of ploidy  | <b>05</b> |
|             | (c) Write a note on plant growth regulators  | <b>05</b> |
| <b>Q.3</b>  | (a) What are advantages of cultivation? Which are the different factors affecting the cultivation of medicinal plants? | <b>06</b> |
|             | (b) What is Garbling? Which are the different methods of drying  | <b>05</b> |
|             | (c) What is Manure? Describe different types of Soils.   | <b>05</b> |
| <b>Q.4</b>  | (a) Describe Racemose and Cymose inflorescence   | <b>06</b> |
|             | (b) Define Fruit, Classify fruits with suitable example  | <b>05</b> |
|             | (c) Define Leaf, Describe different types of leaves  | <b>05</b> |
| <b>Q.5</b>  | (a) What is difference between Monocot and Dicot leaves  | <b>06</b> |
|             | (b) Describe Anatomy of typical Monocot stem   | <b>05</b> |
|             | (c) Describe different types of leaf margin  | <b>05</b> |
| <b>Q. 6</b> | (a) What is adulteration of crude drug? Give the different method of crude drug evaluation                             | <b>06</b> |
|             | (b) Describe in detail Lycopodium spore method   | <b>05</b> |
|             | (c) Define following (Any four)  | <b>05</b> |
|             | i. Stomatal Index                      ii. Ash value   |           |
|             | iii. Vein islet number                iv. Acid value   |           |
|             | v. Vein termination number        vi. Stomatal Number  |           |
| <b>Q. 7</b> | (a) Define Carbohydrates , write classification of carbohydrate  | <b>06</b> |
|             | (b) Differentiate between fat and waxes  | <b>05</b> |
|             | (c) Give Biological Source, chemical constituents and Uses for (any two)   | <b>05</b> |
|             | i. Castor Oil  |           |
|             | ii. Shark Liver Oil  |           |
|             | iii. Honey   |           |
|             | iv. Starch   |           |

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