

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

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BPBARM – SEMESTER II (OLD Syllabus) • EXAMINATION – SUMMER • 2015**

**Subject code: 220005**

**Date: 09-06-2015**

**Subject Name: Pharmacognosy-I**

**Time: 10:30 am - 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.**

- Q.1** (a) Define seed. Explain types of seed with examples. **06**  
(b) Give difference between following; **05**  
(1) Heartwood and Sapwood  
(2) Raceme and Cymose inflorescence.  
(c) Write a note on underground modification of stem. **05**
- Q.2** (a) What is fruit? Write a note on dry, dehiscent fruits with examples. **06**  
(b) Explain following terms; **05**  
(1) Pneumatopores  
(2) Sychonus  
(3) Stipule  
(c) Write a note on Mutation with its application for medicinal plants. **05**
- Q.3** (a) Explain histological difference between monocot and dicot leaf with suitable diagram. **06**  
(b) Write a brief note on the following; (any two) **05**  
(1) Phyllotaxy  
(2) Epiphytes  
(3) Aestivation  
(c) Explain plant growth regulators and write a note on gibberellins. **05**
- Q.4** (a) Explain soil, soil fertility, Altitude, irrigation and temperature as factors affecting cultivation of medicinal plants. **06**  
(b) Write a note on Microscopical evaluation of Medicinal plants. **05**  
(c) Define Pharmacognosy and explain scopes of this subject. **05**
- Q.5** (a) Write a note on Adulteration of crude drugs. **06**  
(b) Give definition and chemical tests of the following; (any two) **05**  
(1) Alkaloids  
(2) Tannins  
(3) Volatile oil  
(c) Enumerate different sources of crude drugs. Write a detailed note on animal source. **05**

- Q. 6**
- (a) Define Lipids. Explain in detail, Fixed oil, Fats and Waxes with examples. **06**
  - (b) Give Biological source, family, Chemical constituents and uses of following; (any two) **05**
    - (1) Theobroma oil
    - (2) Alsi oil
    - (3) Lanolin
  - (c) Explain following sentences; **05**
    - (1) Cod liver oil can not be substituted by Shark liver oil.
    - (2) Pectin is known as reversible colloid.
    - (3) Sesame oil don't need external preservative for storage.
- Q.7**
- (a) Give definition, classification, Physical, chemical properties and pharmaceutical uses of carbohydrates. **06**
  - (b) Give Biological source, family, chemical test and uses of following; ( any two) **05**
    - (1) Honey
    - (2) Starch
    - (3) Isabgul
  - (c) Give difference between; **05**
    - (1) Persian Tragacanth and Indian Tragacanth.
    - (2) Agar and Sodium alginate.

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