

GUJARAT TECHNOLOGICAL UNIVERSITY
BPHARM – SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 220005**Date: 22-01-2013****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) What is Pharmacognosy? Discuss scope of Pharmacognosy. **06**
(b) Elaborate history of Pharmacognosy. **05**
(c) Explain in detail about marine sources of drugs. **05**
- Q.2** (a) Why cultivation is required for medicinal plants? Explain **06**
(b) Write short note on asexual method of cultivation. **05**
(c) Enumerate extrinsic factors affecting to the cultivation. Discuss any two of them. **05**
- Q.3** (a) Differentiate the followings: (Any two) **06**
(i) Primary metabolites and secondary metabolites.
(ii) Organized drug and unorganized drug.
(iii) Collateral closed Vascular bundle and Bicollateral open Vascular bundle.
(b) Describe in brief quantitative microscopy. **05**
(c) Define resins, tannins and volatile oils with examples. **05**
- Q.4** (a) Write common names, Botanical Source, Family, Chemical Constituents, and uses of following drugs: **06**
(i) Bees wax
(ii) Theobroma oil
(iii) Hydnocarpus oil
(b) What do you mean by green house? Discuss merits and demerits of green house. **05**
(c) Write a note on Modification of stem. **05**
- Q.5** (a) Define and explain following terms with examples: (Any six) **06**
(i) Endospermic seed
(ii) Bark
(iii) Epiphytes
(iv) Heart wood
(v) Cauline and Ramal
(vi) Sessile leaf
(b) Differentiate Monocot and Dicot stem. **05**
(c) Enlist names and ideal requirements of mounting agents used for microscopy. **05**

- Q. 6** (a) Define Carbohydrates, Classify it with examples. **06**
(b) Give Botanical Source, Family, Chemical Constituents, uses and adulterants of Ispaghula. **05**
(c) Discuss importance of gums in pharmaceutical industries. **05**
- Q.7** (a) Define crude drugs. Describe different methods of classification of crude drugs with suitable examples. **06**
(b) Write a note on Types of adulterants. **05**
(c) “ Evaluation is current need in crude drugs” Explain **05**
