

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PH- SEMESTER-II • EXAMINATION – WINTER -2017

Subject Code: 220005

Date: 05/01/2018

Subject Name: Pharmacognosy-I

Time: 02:30pm to 05:30pm

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 and explain following terms with suitable examples: (any three) **06**
1. Pharmacognosy
 2. Crude Drugs
 3. Organized Drugs
 4. Morphology
- (b) Elaborate history of Pharmacognosy. **05**
- (c) Discuss scope of Pharmacognosy. **05**
- Q.2** (a) Explain different methods of cultivation of medicinal plants with suitable examples. **06**
- (b) Collection and storage of medicinal plants is very important – Comment on it. **05**
- (c) Enumerate factors affecting cultivation of medicinal plants. Discuss any two intrinsic factors affecting cultivation of medicinal plants. **05**
- Q.3** (a) How microscopy can be used for the identification of herbal drugs? Differentiate qualitative microscopy from quantitative microscopy. **06**
- (b) Which are the different natural sources of drug? Explain in brief about animal sources of drug. **05**
- (c) How can you differentiate monocot leaf from dicot leaf by morphology and microscopy? **05**
- Q.4** (a) Define Carbohydrates. Classify them with suitable examples. **06**
- (b) Define adulteration. Discuss different types of adulteration with suitable examples. **05**
- (c) Write common names, Botanical Source, Family, Chemical Constituents, and uses of following drugs: **05**
- (i) Honey
 - (ii) Guar gum
 - (iii) Acacia
- Q.5** (a) Define and explain following terms with examples: (Any three) **06**
- (i) Foreign organic matter
 - (ii) Moisture content of drug
 - (iii) Ash Value
 - (iv) Extractive value
- (b) Define root. Write a note on modification of root. **05**
- (c) Enlist names and ideal requirements of mounting agents used for microscopy. **05**

Q. 6	(a)	Define Lipids. Classify it with examples.	06
	(b)	Give Botanical Source, Family, Chemical Constituents, uses and adulterants of Theobroma oil.	05
	(c)	Discuss analytical parameters for fats and oil with their importance.	05
Q.7	(a)	Define following terms with suitable examples. (any three)	06
	(i)	Inflorescence	
	(ii)	Cremocarp	
	(iii)	Drupe	
	(iv)	Perispermic seed	
	(b)	Discuss secondary metabolites present in the plants and mention their importance.	05
	(c)	Describe different methods of classification of crude drugs with suitable examples.	05
