

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA PHARMACY - SEMESTER-I • EXAMINATION-SUMMER • 2014

Subject Code: 410003

Date: 26-05-2014

Subject Name: Pharmacognosy

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 Alkaloids. Classify them with suitable examples. **06**
Write detailed note on identification tests and isolation of alkaloids.
- (b) Define Adulteration. Describe different methods of adulteration in detail. **05**
- (c) Discuss the complete pharmacognosy of any one Antihypertensive drug OR Antileprotic drug. **05**
- Q.2** (a) Write complete note on any one drug containing Cardiac glycoside OR Saponin glycoside. **06**
- (b) Define Diuretics. **10**
Describe the complete pharmacognosy of any two Diuretic drug.
- Q.3** (a) Write short note on Umbelliferous fruits. **06**
- (b) Give the morphological and microscopical characters for the followings :
(Any five) **10**
- | | | |
|-----------|--------------|----------------|
| i. Senna | ii. Datura | iii. Clove |
| iv. Vinca | v. Coriander | vi. Nux vomica |
- Q.4** (a) Differentiate the followings : (Any two) **06**
- | | |
|------------------------------------|-------------------------------|
| i. Black & Pale Catechu | ii. Ceylon & Chinese Cinnamon |
| iii. Organized & Unorganized drugs | |
- (b) Discuss the complete pharmacognosy of any one drug containing Tropane alkaloid OR Quinazoline group of alkaloid. **05**
- (c) Write detailed note on Ergot with its life cycle. **05**
- Q.5** (a) Write short note on the followings : (Any two) **06**
- | | |
|----------------------|--|
| i. Antitussives | |
| ii. Antimalarials | |
| iii. Antidysenterics | |
- (b) Give Biological source, Family, Chemical constituents & Uses for the following drugs : (Any five) **10**
- | | | |
|-------------|----------------|------------|
| 1. Withania | 2. Picrorrhiza | 3. Ephedra |
| 4. Satavari | 5. Dioscorea | 6. Garlic |
- Q.6** (a) Discuss in detail about physical and chemical evaluation of crude drugs. **06**
- (b) Give chemical tests and uses for the followings : (Any five) **10**
- | | | |
|-----------------|----------------|-----------|
| i. Siam benzoin | ii. Asafoetids | iii. Aloe |
| iv. Nux vomica | v. Agar | vi. Myrrh |
- Q.7** Write detailed note on the followings: (Any four) **16**
- | | | |
|---------------------------|--------------------|--------------|
| I. Bulk laxatives | II. Essential oils | III. Tannins |
| IV. Sutures and ligatures | V. Oleo-gum-resins | |
