

GUJARAT TECHNOLOGICAL UNIVERSITY

B. PHARM (SEMESTER-8) SUMMER-2015

Subject code: 280005

Date: 06/05/2015

Subject Name: Pharmacognosy VII (Herbal Formulations and Complimentary Therapies)

Time: 10:30 am to 1:30 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) Write a method for preparation of self generated alcohol Ayurvedic formulation with example **06**
- (b) What is Bhasma? Explain their purification methods. **05**
- (c) Define Poisonous Plant and give any four Biological sources and give their toxic effects in human. **05**
- Q.2** (a) Define herbal substance, herbal preparation and Enlist only the name of various Quality control parameters as per WHO and explain any one. **06**
- (b) Define Adsorption chromatography and explain any one of the technique. **05**
- (c) Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Gymnema (2) Palash **05**
- Q.3** (a) Write down the general method of extraction process for obtaining (1) Alkaloids (2) Glycosides **06**
- (b) Name any five Government institutions / industries involved in work of medicinal plants in India. **05**
- (c) Write down the method of preparation of Taila with example. **05**
- Q.4** (a) Draw neatly labeled Morphology and Transverse section of *Vitex negundo* leaf. **06**
- (b) Give the Biological sources, chemical constituents and uses of (1) Geranium oil (2) Mentha oil **05**
- (c) Give the Biological source, isolation method, chemical test and uses for Embelin containing drug Vidang. **05**
- Q.5** (a) Write down the Biological source, family, chemical constituents and uses of drug (1) Katakari (2) karanj (3) Bhilama **06**
- (b) Give the sources, chemical structure and chemical test for the following phytoconstituents (1) Quinine (2) Atropine **05**
- (c) What is underground stem? Give the detailed pharmacognostical study of any one plant of this category. **05**

- Q. 6** (a) Define tannins. Give the general chemical test for tannins and write a short notes on (1) Harde (2) Baheda. **06**
- (b) Write down the various modern extraction techniques for obtaining herbal extract. **05**
- (c) Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Majith root (2) Vaj Rhizome **05**
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- Q.7** (a) Give the different sources of Sennoside and write down any Pharmacopeial method for its estimation. **06**
- (b) What is Hyphenated technique in chromatography and give its significance for herbal drug analysis. **05**
- (c) Write down the Biological source, family, chemical constituents, uses and marketed formulation of (1) Shirish Bark (2) Pterocarpus wood **05**
