B.PHARM/SEM-VII-CBSGS/ 26/11/15.

SUB- Pharmacognosy and Phytochemistry-II

Q.P. Code : **21808**

(3 Hours) [Total Marks : 60

N.B. : (1) All questions are compulsory.
(2) Write all subquestions together.
(3) Draw structures and diagrams wherever necessary.

1. Answer the following : 15
   (a) Give biological source of an oil used in treatment of Leprosy.
   (b) What are ellagotannins. Give example of drug containing Ellagotanning.
   (c) What are Pseudo alkaloids. Give suitable example.
   (d) Draw structure of embelin. Give its biological source.
   (e) Give merits and demerits of Natural Pesticides.
   (f) Give reasons for cascara to be stored for one year before use.
   (g) Name the nutracentical used as antihyperlipidimic and mention the probable constituent responsible for activity.
   (h) Define iodine value and give its significance.
   (i) Differentiate Hydrolysable and true tannins with one chemical test.
   (j) Define polyacetylenes with suitable example.
   (k) Name and describe the chemical test for detection of cyanogenetic glycosides.
   (l) Give biological source and use of a wax obtained from Animal source.
   (m) Write biological source and use of a drug answering Van-Erk's test.
   (n) Name an Anthraquinone glycoside obtained from animal. Mention its biological source.
   (o) Give biological source and uses of an alkaloid obtained from ornithine.

2. (a) Give biological source, chemical constituents, uses, chemical tests and method of preparation of black and pale catechu. 4
   (b) Give biological source, chemical constituents and preparation of castor oil. 4
   (c) Write the biogenetic pathway for synthesis of emetine. 3

3. (a) With suitable examples differentiate oils, facts and waxes with respect to chemical and physical properties and evaluation parameters. 4
   (b) Discuss Pharmacognostical scheme of Nux-vomica 4
   (c) Discuss two neutraceutical used as immunomodulators. 3

4. (a) Discuss "Opium" in detail. 4
   (b) Describe in detail varieties method of preparation, chemical constituents and chemical tests for aloes. 4
   (c) Describe biological source, chemical constituents and uses of Henna and Plumbago. 3

5. (a) Give biological source, method of preparation chemical constituent and uses of woolfat and Lecithin. 4
   (b) Give detailed Pharmacognostic scheme of Rauwolfia/Ephedra. 4
   (c) Write the Biological source chemical constituents and uses of Senna and Bitter Almonds. 3

6. (a) Give Biological source, life cycle, chemical constituents and uses of Ergot. 4
   (b) Write a note on Amla and Green tea. 4
   (c) Give an account of pesticides from natural sources. 3