B. Tech.

(SEM. VIII) EXAMINATION 2006-07

TECHNOLOGICAL ADVANCES IN PERFUMARY & COSMETICS

Time: 3 Hours [Total Marks: 100]

Note: Attempt all questions. All questions carry equal marks.

1 Attempt any four of the following:

(a) Discuss various types of odoriferous animal secretions and give physico chemical characteristics of any one animal secretion. 5

(b) Describe various parts of plants used in extraction of essential oils. 5

(c) Discuss the various types of solvents used for extraction of essential oils. 5

(d) What do you understand by plant isolates? Also give physico chemical characteristics and applications of any one plant isolate. 5

(e) Give the formulation of synthetic perfume and compare its performance with natural perfume. 5

(f) Explain the function of perfume fixatives. 5

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2 Attempt any four of the following:
   (a) Define Aromatherapy and discuss its various applications. 5
   (b) What are perfume diluents? Also discuss their role in perfume formulations. 5
   (c) Describe the Super Critical technique used for extraction of essential oils. 5
   (d) Describe Bio-extraction process for extraction of essential oils. 5
   (e) Discuss the role of Gas Liquid Chromatography in the analysis of essential oils. 5
   (f) What do you understand by Maceration and Enflurage? 5

3 Attempt any two of the following:
   (a) What do you understand by Hydrophilic Lipophile Balance (HLB)? Also discuss the criterion for the selection of an emulsifier. 10
   (b) What do you understand by skin rejuvenation? Also discuss the role of a cream in skin rejuvenation. 10
   (c) Discuss various emulsifiers used in cream formulations. Also discuss the role of emulsifiers in creams and describe the current developments in emulsifiers used in cream formulation. 10

4 Attempt any two of the following:
   (a) Discuss the composition of hair and pigmentation on the basis of protein structure. 10

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(b) Describe how curly hairs are different than straight hairs. Also give the process of conversion of straight hair into curly hairs.

(c) Give the formulation of shaving cream and describe the method for its preparation. Also discuss various antiseptics used in after shave preparation.

5 Attempt any two of the following:

(a) What do you understand by Herbal Creams? Also discuss various herbal ingredients incorporated in cream formulation.

(b) Write short notes on:
   (i) Antioxidants in creams
   (ii) Hair Conditioners.

(c) Give the manufacturing process of cold cream. Also discuss the role of each ingredients used.