B. Tech.

(SEM. IV) EXAMINATION, 2006-07

SOURCES, COMPOSITION & CHARACTERISTICS
OF OILS, FATS & WAXES

Time : 2 Hours] [Total Marks : 50

Note : (i) Attempt all questions.
(ii) Be precise in your answer.

1 Attempt any four parts of the following : 3×4=12
   (a) Which are the major export and import materials of the world in the trade of oils? Discuss briefly.
   (b) How oil seeds should be stored to prevent their deterioration?
   (c) What are the various factors which effect the deterioration of oilseed/oil bearing material?
   (d) What are the natural sources of Oils and Fats?
   (e) What are the major oil seed crops in India? Write which crop is dominating in which state?

2 Discuss the method of production, composition 6×2=12 and characteristics of any two :
   (i) Mustard Oil
   (ii) Soyabean Oil
   (iii) Linseed Oil

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(iv) Castor Oil
(v) Mango Kernel Oil.

3 Discuss any three of the following: 4×3=12
(a) Write composition, characteristics and uses of Cod Liver Oil.
(b) How Lard is different from Tall and Greases.
(c) Discuss composition, characteristics and uses of Deshi Ghee.
(d) Determination of protein content in deoiled seed.
(e) Write the uses of different protein obtained from deoiled seed. Which is the best protein?

4 Discuss any two of the following: 7×2=14
(a) Write sources, compositions and application of Bees wax. Write its method of isolation also.
(b) What are natural waxes? Write their classification also.
(c) How Paraffin Waxes are different from natural waxes?
(d) In what way Jojoba wax is different from other waxes?