B. Tech.

(SEM. VIII) EXAMINATION, 2006-07

ALCOHOL TECHNOLOGY

Time : 3 Hours] [Total Marks : 100

Note : (i) Attempt all questions.
(ii) All questions carry equal marks.

1 Attempt any four parts of the following : 5x4=20
   (a) What starchy materials are used for the fermentative production of Alcohol ?
   (b) Why cellulosic materials have not been commercially successful for the fermentative production of alcohol so far?
   (c) Discuss briefly different grades of molasses.
   (d) Discuss briefly chemical composition of molasses.
   (e) What are the optimum growth conditions for yeast in yeast vessels.
   (f) Differentiate between food, fodder and bakers yeast.

2 Attempt any four parts of the following : 5x4=20
   (a) Discuss the role of yeast vessels in a distillery.
   (b) Discuss Melle Bionet process of fermentation.

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(c) Discuss disadvantages of Batch fermentation process.
(d) How yeast growth curve is different in continuous fermentation process?
(e) How can you count living and dead yeast cells in fermented wash?
(f) Write salient features of Biostil process of fermentation.

3 Attempt any two parts of the following:  \[10 \times 2 = 20\]
(a) Classify various IMFL (Indian made foreign liquors) with definition.
(b) What do you mean by country liquor? Differentiate with spiced liquor.
(c) What do you mean by MPR?

4 Attempt any two parts of the following:  \[10 \times 2 = 20\]
(a) How whisky is prepared from grains?
(b) Discuss the process of Champagne making.
(c) What do you mean by Reduction in Blending?

5 Write short notes on any two of the following:  \[10 \times 2 = 20\]
(a) Fusel oil
(b) Acetic acid production from molasses.
(c) DDGS (Distillery dried grain substance).