



Name :

Roll No. :

Invigilator's Signature :

CS/B.Tech (FT)/SEM-7/FT-703C/2010-11

2010-11

UTILIZATION OF FOOD INDUSTRY REFUSE

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

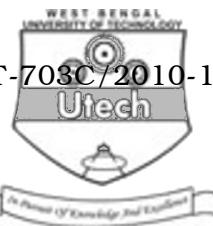
GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) The temperature required for the production of curd from milk is
 - a) 20°C
 - b) 42°C
 - c) 60°C
 - d) 70°C .
 - ii) Vitamin E rich factor presents in
 - a) Soybean oil
 - b) Palm oil
 - c) Butter
 - d) Ghee.
 - iii) The shape factor of spherical particle is
 - a) 4.5
 - b) 2.6
 - c) 1.4
 - d) 1.0.
 - iv) The animal organs are utilized mostly for the preparation of
 - a) Pet food
 - b) Sausage
 - c) Protein paste.



- v) PDA is obtained from
 - a) PPC
 - b) Potato water
 - c) Pork waste.
- vi) Equalization is done in
 - a) Neutralization tank
 - b) Settling tank
 - c) Buffer tank.
- vii) The organism that is involved in the production of 'Citric acid' is
 - a) *Aspergillus niger*
 - b) *Aspergillus oryzae*
 - c) *Clostridium botulinum*.
- viii) Agar is obtained from
 - a) *Sargassum cinereum*
 - b) *Gelidium cartilegineum*
 - c) *Turbinaria ornata*.
- ix) Corn gluten meal is used to feed
 - a) Poultry
 - b) Pig
 - c) Sheep.
- x) KREHALON is made up of
 - a) Aluminium
 - b) PVC
 - c) Rubber hydrochloride.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

2. What are the Condensed and Dried products from Whey ? Describe.
3. What is Lactose ? What are its different grades ? Describe the method of Lactose manufacture from Whey. Write down some of its applications.
4. How can we obtain human food from blood ? Describe how egg shells can be used as fertilizer.
5. Write notes on any *three* of the following :
 - a) FPC tablets
 - b) DCTW
 - c) Fish Macaroni
 - d) SCP from potato waste.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

6. How can you utilise fruit wastes for making pectin as the by product ? Given two examples.
7. Write the process production of activated charcoal from Apple Pomace.
8. Describe with the helps of a flow diagram the preparation of glue from seafood processing wastes.
9. What do you mean by “Marine Beef” ? What are its different applications in food industry ?