



Name :

Roll No. :

Invigilator's Signature :

CS/B.Tech(FT)/SEM-7/FT-703C/2011-12

2011

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 × 1 = 10

- i) FPC which is used as animal feed is
 - a) Type A FPC
 - b) Type B FPC
 - c) Type C FPC.
- ii) The pH required during incubation for the production of citric acid from apple pomace is
 - a) less than 4
 - b) equal to 8
 - c) greater than 5.



- iii) Paddy husk contains silica about
 - a) 97%
 - b) 56%
 - c) 2%.
- iv) The substance used as a coagulant in the treatment of waste water is
 - a) Polyethylene glycol
 - b) Chitosan
 - c) Mercaptoethanol.
- v) Shagreen is found in
 - a) Pacific mackerel
 - b) Silver bar
 - c) Shark.
- vi) The binding agent in the preparation of FPC tablets is
 - a) Gelatin
 - b) Sugar
 - c) Guar gum.
- vii) The winterization process is done
 - a) to precipitate waxes
 - b) to make the product cool
 - c) to protect the product from chill of winter.



- viii) The production of FPC from Bombay duck waste involves heat along with
- a) Alpha Ray
 - b) Beta Ray
 - c) Gamma Ray.
- ix) Chitin is a type of
- a) Polymer
 - b) Monomer
 - c) Tetramer.
- x) Glucosamine is marketed as
- a) Glucosamine hydrochloride
 - b) Glucosamine master
 - c) Rich glucosa.

GROUP – B

(Short Answer Type Questions)

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

2. How can you prepare "isinglass" out of Fish Industry byproduct ? What are its applications in Food Industry ?
- 4 + 1
3. Write a brief account on the production of puffed cereal from broken rice.
4. Describe with the help of a flow diagram the preparation of nutritional enhancer feed from seafeed processing wastes.
5. How can you prepare industrial alcohol from non-usable cereal ?

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GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

6. Describe the manufacturing process of the production of "fish meal".
7. How can you utilize apple pomace for the production of different usable products of importance ? Discuss in detail.
8. What are the different types of fermentation products obtained from whey ? How tea waste can be used for making feed for livestock and poultry ?
12 + 3
9. Write short notes on any *three* of the following :
3 × 5
 - a) Protein from sorghum
 - b) Marine beef
 - c) Zein and kafirin
 - d) Collagen fibre and surgical suture.

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