

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID : 2289909

Roll No.

B.TECH.

Regular Theory Examination (Odd Sem -VII) 2016-17 FOOD QUALITY & CONTROL

Time : 3 Hours

Max. Marks : 100

SECTION - A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (10×2=20)

- What is essential fatty acid?
- What is the biggest source of Iron?
- What is Pigment?
- What is PFA?
- What is HACCP?
- What is the use of food quality control tool?
- What is sensory test?
- Explain consistency & Viscosity of food material?
- Define TQM & TQC?
- What is quality control?

SECTION - B

2. Attempt any five questions from this section

(5×10=50)

- What is carbohydrates. Explain their types with their respective structure?
- What is sugar? Explain its types. Also give its scientific and common features of sugar?
- Explain B.I.S., AGMARK, ISO 9000, HACCP. Explain the systematic procedure of HACCP.
- Describe the main factor involved during selection of material for processing equipments?
- What is food quality and why it is necessary?
- Write short notes on:
 - CAP-storage structures.
 - Angle of repose
 - Fumigation
 - Freezing
 - Gas laws.
- What is sensory test give a detail account of it?
- What is food spoilage and their causes. Also give a description of microbial spoilage.

SECTION - C

Note : Attempt any two questions from this section.

(2×15=30)

3. What is Vitamin and give a detail of types of vitamin with its richest source?
4. An evaporator has a rated evaporation capacity of 200 kg/hr of water. What will be the rate of production of concentrated juice containing 40% at total solid from a raw juice containing 10% solids.
5. In Order to overcome flavour loss in concentrated orange juice a portion of fresh juice is mixed with the concentrated juice. If the fresh juice is initially concentrated to 45 wt%. Solid and the desired final concentration of the product is 40 wt % find the weight fraction of the fresh juice which is required to be concentrated. The fresh juice contains 10 wt % solids.

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