Examination

Food Technology

Question Number
28

Date

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(o/ ii / ii	Number of booklets used for this question	4

Instructions

- Write your Centre Number and Student Number at the top of this page.
- In the boxes provided write the name and date of this examination, and the number(s) of the question(s) attempted in this booklet.
- If you have not attempted the question, you must still hand in the Writing Booklet, with the words 'NOT ATTEMPTED' written clearly on the front cover.
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- You may NOT take any Writing Booklets, used or unused, from the examination room.

-1-2011 HSC - Food Technology Band 5/6 Question 28 sample 3 Start here. a) Deterioration and spoilage infinit can be canced by physical damage through bruising which will accelerate detenoration due to the cell wall damage Also microbiological organisms such as unises, montals, bacteria and funghi can cause spoilage Enzyme activity mcreases the opening and can lead to the overlipening of the fult, which would cause fuit to become soft and inedible 6) * Name · Quantity - Use-by date - Name and address of mounfactures · Barrode · Nutritional pomel - Ingredients list · country of origin · Batch mmber The product must have the measurement of the food. There can be more than the stated amount or it can be exact, however there cannot be less than the stated amount. The batch unmber unst be placed on to allow for food product recall if there was a nich

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-2-2011 HSC - Food Technology Band 5/6 Question 28 sample other of contamination or with s associated with the quality of the product. There must be a untritional panel to inform consumers of the intritional content of the food, allowing more informed decisions on the purchasing of the food product An ingredients list must be included from largest component to the smallest component, so that individuals with food allergies or into lerances can be sure of the product contents A use-by date anot be included to avoid a rich of food poisoning or other sideness due to unsafe food A name and address of the manufacture, must be included so that consumers provide feedback, queries and complaints that they may have A barcode is needed in order to identify each product. The country of origin must be place it unst be real as false statement may lead to prosecution. A name anst be included to help identify the product Additional writing space on back page.

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- 3 -2011 HSC - Food Technology Band 5/6 Question 28 sample 3 c) Dying (dehydration can be used. This knowes the removal of water to levels of 6-7 % Microbial growth and activity can occur at a level of 12-13%. Vacuum drying ain be used where a vacuum succes up the moisture of the product. Salting can be used as the water concentration increases and this reduces the amount of available mosture for microorganisms to grow in. The product is then sealed in order to prevent the re-entering of menorganisms. Bying prevents condensation which produces a humid enviorment which is favourable to interoorganisms. Vacaum sealing excludes any air that most mero-organisms need in order to sumie However contion anot be taken for Clostridkin botulinum as this can survive in anoerobic conditions. During increases the shelf-life of the finit, allowing foods to be consumed at of the year any time Addition of chemicals an also be used Lemonjuice or inegar can be used to decrease the pH of the first, making it more acidic

prost mano organisms cannot sunite at a pH less than 4.2. Acidic environments can denatu

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2011 HSC - Food Technology Start here. enzymes which could increase the opening and tune the deterioration of the finit. An actilic environment destroys micro-organisms The addition of sugar decreases the amount of water available for micro organisms to grow and survive. This hills the area - organisms as most are incapable of sumiving without water,

Examples of finite that use delydration include mangoes, apricots, prines, grapes and bananas. Examples of frits that use addition of chemicals are strawbenies, apricots and blueberries, Preservation processes allow fuits to be hept at soon temperature, or in the case of products such as fain in the refrigerator once opened. It allows an increased shelf- (ife of around a year and allows finits to be available all year wound.