

Food Technology

Section II – Part A (continued)

Marks

Question 12 – Food Manufacture (15 marks)

Choose a manufactured food product. Answer the following questions for this product.

Chosen food product MILK

- (a) List THREE key factors which need to be considered when choosing the type of packaging for the chosen food. 3

- Must be able to contain a liquid (milk)
- Must be able to keep and preserve the milk
- Must be easily transported and convenient to use and move.

- (b) (i) Describe an experiment to determine the suitability of the packaging for the chosen food product. 3

Using many different packages^{ing} material, such as glass, plastic, cardboard, tin/aluminium place the same amount of milk into each container. Seal the package. Test the package for qualities such as convenience, ability to break when dropped, environmentally friendly and the ability to keep the milk at its highest quality for the longest period of time

Question 12 continues on page 8

Question 12 (continued)

- (ii) Critically evaluate the results obtained from the experiment. 5

Glass - broke when dropped, was not the best for convenience. (heavy, fragile for transportation) ^{hard to recycle (long process)}
~~For~~ Aluminium/tin can was able to keep the milk very well unrefrigerated but had to be moved to another container when opened.
 Cardboard - squashed when dropped and was not air tight. Plastic, cardboard and Aluminium were good for the environment and were easily transported. The conclusion was made that the plastic container proved to ~~be~~ be the best in all categories tested.

- (iii) Describe the most suitable type of packaging for the chosen food product and provide an explanation for your decision. 4

The most suitable package was a plastic container. The plastic is readily recyclable and contains the liquid. It is able to be moulded to have a handle and is resealable with a lid. It kept the milk for the longest time compared to the other packaging materials tested and has a large space for a label. The plastic is also transparent and easily transportable in crates.

End of Question 12