



PIABC LEVEL 5 DIPLOMA IN PACKAGING TECHNOLOGY
(Qualification No. 610/0740/7)

SAMPLE EXAMINATION PAPER

J/650/2133 UNIT 1

UNDERSTAND THE ROLE AND FUNCTIONS OF PACKAGING

INSTRUCTIONS TO CANDIDATES

Write your answers in the answer book provided.

Wherever possible, use diagrams to illustrate your answer.

This is a closed book examination.

100 marks are available in total for this examination.

The number of marks is given in brackets () at the end of each question or part question.

Leave time at the end to check your answers.

Examination Time: 2 Hours

Issued under the authority of the
PACKAGING ASSESSMENT BOARD
14 February 2023

SECTION 1

TWO QUESTIONS - 20 MARKS EACH

Question 1

750g of cornflakes are packed in a high-density polyethylene bag inside a paperboard carton. 12 cartons are placed in a corrugated board case and palletised on a wooden pallet. The load is secured with stretch wrap.

Discuss how this packaging system performs the functions of packaging. (20 marks)

Question 2

- A) Define and briefly describe the primary, secondary and tertiary packaging for a 400g rectangular pack of hard cheese. (3 x 2 mark)
- B) For the packaging described above, discuss the ways the components work together to optimise the complete packaging solution in the supply chain. (3 x 3 marks)
- C) What are the most significant hazards faced by the packed product in the supply chain and discuss how they can be minimised or controlled? (5 marks)

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SECTION 2

SIX QUESTIONS - 10 MARKS EACH

Question 3

- A) What are the 4 Ps of marketing? (2 marks)
- B) Briefly discuss how EACH of these terms is relevant to fast moving consumer goods. (4 x 2 marks)

Question 4

Recently many organisations have expressed an interest in moving away from plastic packaging.

Discuss, using examples, the possible environmental impacts of this strategy if implemented. (5 x 2 marks)

Question 5

Discuss how legislation is being developed and used to address concerns regarding the sustainability of packaging. (10 marks)

Question 6

- A) Discuss how packaging has adapted to suit the needs of modern lifestyles. (8 marks)
- B) As well as being environmentally responsible, identify the TWO other major drivers that encourage manufacturers today to reduce the amount of packaging they use. (2 x 1 mark)

Question 7

Define active and intelligent packaging. (2 marks)

Briefly describe FOUR examples of active and/or intelligent packaging that have been developed to improve the consumer's experience. (4 x 2 marks)

Question 8

Describe TWO methods used to extend the shelf life of food products and discuss the implications for packaging for each. (2 x 5 marks)

END OF EXAMINATION PAPER