



SUMMER EXAMINATIONS 2023

EXAMINATION: UNIT 1 Fundamentals of Packaging Technology and Packaging in the Supply Chain

COURSE: CPD Diploma in Packaging Technology

DATE: 11th May 2023
10am to 12pm

EXAMINERS: Tony Duffy, David Little

TIME ALLOWED: 2 hours

INSTRUCTIONS: Please answer four questions. All questions carry equal marks

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The use of programmable or text storing calculators, smart phones etc are expressly forbidden. Please note that where a candidate answers more than the required number of questions, the examiner will mark all questions attempted and then select the highest scoring ones.

Question 1 (25 marks)

Taking the 'EPPIC FUSCE' Definition of Packaging, reword / reorder it to suit today's manufacturing and environmental challenges. Explain and justify your thought process.

(25 marks)

Question 2 (25 marks)

Discuss and explain a range of issues that more sustainable packaging, can have on an extended supply chain. Consider the various packaging levels and material substrates within your answer. Give examples with you answer.

(25 marks)

Question 3 (25 marks)

Assume you are creating a new FMCG product primary pack for a food company, describe the product and discuss three different preservation methods, that could be used to preserve the shelf-life of the product. Give pros and cons for each method and reasons for your ultimate choice of packaging format.

(25 marks)

Question 4 (25 marks)

Discuss the factors that can have an impact on product and pack quality during transport giving examples to illustrate your answer.

(25 marks)

Question 5 (25 marks)

There are many hazards in the distribution chain that can cause damage to the product and packaging. A useful device that can be used to measure the causes of potential damage is an accelerometer. Discuss how two potential hazards in the supply chain can be measured using an accelerometer and how the results can be interpreted to assess the level of damage.

(25 marks)