LEVEL 5 DIPLOMA IN PACKAGING TECHNOLOGY (QCF)

(Qualification Accreditation Number: 600/0017/X)

EXAMINATION PAPER

November 2016

A/502/5921 UNIT 01

Packaging in Today's World

Reading Time: 5 minutes

Examination Time: 3 Hours

You are required to answer and pass **ALL** the questions

Write your answers in the answer book provided

Wherever possible, use diagrams to illustrate your answer

This is a closed book examination

Level 5 Diploma in Packaging Technology (QCF)
Unit 1 – Packaging in Today's World
November 2016

YOU ARE REQUIRED TO ANSWER **ALL** THE QUESTIONS ON THIS PAPER

Learning Outcome 1
Understand the role of packaging in the modern society
(This question is worth 10% of the marks for this unit)

Question 1

A) Discuss how packaging has adapted to suit the needs of modern lifestyles over the last 50 years. (8 marks)

B) As well as being environmentally responsible; briefly describe the TWO other major drivers that encourage manufacturers today to reduce the amount of packaging they use. (2 marks)

Learning Outcome 2
Understand the structure and interactions of elements in the packaging supply chain
(This question is worth 20% of the marks for this unit)

Question 2

A) Outline the steps in the supply chain from forest to packer filler for a corrugated board case. (5 marks)

B) A mobile phone (cell phone), sold via an online retailer, is individually packed in a plastic bag with moulded pulp end caps and placed in a corrugated board case.

Describe the causes and effects of FIVE hazards which could be encountered from the product manufacturer to the consumer (5 x 2 marks) and how the packaging would mitigate the effects. (5 x 1 mark).

Learning Outcome 3
Understand the functions of packaging
(This question is worth 30% of the marks for this unit)

Question 3

A) Tablets can be packed in a blister pack and carton or a plastic bottle. Discuss how both of these packaging formats perform the functions of packaging. (13 marks)

B) A branded shampoo is packed for distribution through a major supermarket. Describe an appropriate primary, secondary and tertiary package for this product and discuss how the functions of packaging are achieved by each. (11 marks)

C) Discuss the factors which will cause the following packs to degrade:

   a) Plastic bottle for detergents (2 marks)
   b) Corrugated case used for delivery of a laptop computer (2 marks)
   c) Decorated metal biscuit box (2 marks)

Learning Outcome 4
Know the principles of the key legislation, regulations and standards
relating to the packaging supply chain
(This question is worth 15% of the marks for this unit)

Question 4

A) Discuss how a specific item of legislation, regulation or standard is being used to reduce the impact of packaging on the environment. (5 marks)

B) Discuss how a specific item of legislation, regulation or standard is being used to ensure safe food products are produced. (5 marks)

C) Discuss how a specific item of legislation, regulation or standard is being used to ensure consumers are not misled. (5 marks)

In each case provide the name of the legislation, regulation or standard, the country or origin and then relate specific requirements to the desired impacts.

Learning Outcome 5
Understand the factors that affect the impact of packaging on the environment
(This question is worth 15% of the marks for this unit)

Question 5

A) Describe and justify, using examples, THREE environmental factors (excluding disposal) that need to be considered when making packaging choices. (3 x 3 marks)

B) Identify THREE methods of managing consumer packaging after its first use and describe the relevant considerations for each method. (3 x 2 marks)

Learning Outcome 6
Understand the relationship between packaging and marketing
(This question is worth 10% of the marks for this unit)

Question 6

Briefly discuss TEN different activities or tools used in the market research process to identify consumer needs. Give examples to explain your answer. (10 x 1 mark)