



Final Draft Question Paper

Module 4:	Product Handling, Storage and Distribution	
Date: 12 May 2014	Time: 09:30 – 11:30	Duration: 2 Hours

You should have the following for this examination: **one answer book; pencil, pen and ruler.**

All questions carry equal marks. The maximum marks for each section within a question are shown. Answer **ALL EIGHT** questions, starting each question (1-8) on a new page in the answer book.

1.
 - a) Describe briefly **TWO** main types of mechanical discharger found on bin outlets. (4 marks)
 - b) Explain briefly **FIVE** advantages of fluidised bin dischargers. (5 marks)
 - c) Describe **THREE** disadvantages of batch blending. (3 marks)

2.
 - a) Describe briefly **FOUR** practices which ease the storage problems of wheatfeed. (4 marks)
 - b) List **FOUR** factors to be considered during preparation and making safe for bin entry. (4 marks)
 - c) Outline **FOUR** advantages of steel silo construction compared to concrete. (4 marks)

3.
 - a) List **SIX** main components of an automatic palletiser. (6 marks)
 - b) Describe briefly **SIX** factors to be considered when choosing a bag design. (6 marks)

4.
 - a) Describe briefly the **TWO** methods used for filling minibulk containers (FIBCs). (2 marks)
 - b) State **SIX** key considerations when selecting a type of pallet to be used. (6 marks)
 - c) State **TWO** reasons for clearly marking packed bags. (1 marks)
 - d) List **THREE** useful tasks that can be completed using a pallet inverter. (3 marks)

5.
 - a) List **FOUR** advantages and **FOUR** disadvantages of a valve packer. (8 marks)
 - b) List **FOUR** factors to be considered when designing the layout of a warehouse (4 marks)

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6. a) List SIX factors to be considered when setting up a warehouse management system. (6 marks)
- b) State SIX points to be considered when selecting a bulk vehicle for flour deliveries. (6 marks)
7. a) For EACH of the following types of chassis, state the maximum weight restriction imposed in tonnes gross.
i) 2 axle rigid (AW);
ii) 5 axle articulated (AW);
iii) 6 axle articulated (AW). (3 marks)
- b) Describe the method used to discharge minibulk containers (FIBCs). (6 marks)
- c) List THREE co-products that may be handled in the warehouse. (3 marks)
8. a) Outline FIVE site safety rules that apply to the use of a forklift truck. (5 marks)
- b) List FIVE factors which would be continually monitored and recorded as part of a pest control system. (5 marks)
- c) List TWO types of acceptable rodenticides used in and around UK flour mills. (2 marks)