



Question Paper

Module 4:	Product Handling, Storage and Distribution	
Date: 13 May 2013	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 new question (1-8) on a **new** page in the answer book.

1.
 - a) Sketch a flow diagram of a batch blending system, utilising a single mixer, capable of producing both brown and white treated flours. Label SIX main features. (6 marks)
 - b) State SIX benefits of batch and continuous blending systems. (6 marks)

2.
 - a) With the aid of sketches, explain the difference between a central exhaust system and an individual exhaust system. (6 marks)
 - b) State the alternative procedure to flour blending which is used by the miller to produce consistent finished products to the correct specification. (2 marks)
 - c) Outline FOUR advantages of packing direct from a storage bin rather than direct from the mill. (4 marks)

3.
 - a) State TWO reasons for placing a magnet prior to a redressing machine. (2 marks)
 - b) Describe briefly the operation of a centrifugal redresser. (3 marks)
 - c) State THREE in-process checks which should be carried out to ensure the correct operation of a centrifugal redresser. (3 marks)
 - d) Explain briefly the FOUR steps in the operation of a bag placer. (4 marks)

4.
 - a) Explain how a four spout packer achieves a greater capacity than a single spout packer. (2 marks)
 - b) List FOUR disadvantages of manual palletisation. (4 marks)
 - c) List THREE disadvantages for EACH of the following trucks:
 - i) Reach truck; (3 marks)
 - ii) Hand pallet truck. (3 marks)

continued overleaf

5. a) State SIX disadvantages of a multi-storey warehouse. (6 marks)
- b) List FIVE factors that must be considered when designing a new warehouse. (5 marks)
- c) State TWO methods of storing unit loads of flour in a warehouse. (1 mark)
6. a) List SIX safety aspects to be considered during the unloading of bulk products. (6 marks)
- b) With the aid of sketches, describe TWO methods of loading a bulk flour tanker. (6 marks)
7. a) List SIX factors to be considered when delivering products to customers. (6 marks)
- b) List SIX criteria which apply to the loading of bagged goods. (6 marks)
8. a) Describe the methodology used for the following types of rodent control:
- i) Trapping; (2 marks)
- ii) Gassing. (2 marks)
- b) Describe FOUR methods used for the control of bird pests. (8 marks)