



Question Paper

Module 4:	Product Handling, Storage and Distribution	
Date: 24 September 2020	Time: 09:30 – 11:30	Duration: 2 hours

You should have the following for this examination: **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 the **TWO** main methods used to exhaust storage bins. (4 marks)
 - b) Outline **FIVE** advantages of steel silo construction compared with concrete. (5 marks)
 - c) Describe briefly **THREE** advantages of using load cells to monitor the contents of a storage bin. (3 marks)
2.
 - a) State the **TWO** basic methods used by the miller to produce consistent finished products. (2 marks)
 - b) Explain the importance of regular bin cleaning. (3 marks)
 - c) Describe **FOUR** factors that should be considered when planning entry to a storage bin. (4 marks)
 - d) List the **THREE** main types of mixer used in flour blending systems. (3 marks)
3.
 - a) Describe the **TWO** basic types of feed arrangement to a flour weighing scale. (4 marks)
 - b) State **THREE** steps that must be taken to ensure bags are not delivered below the minimum weight requirements. (3 marks)
 - c) List **FIVE** factors to be considered when deciding whether to use a bag placer on a packing filling spout. (5 marks)

continued overleaf

4. a) Describe THREE methods of stitching bags. (6 marks)
- b) i) Describe briefly the operation of a product in flight metal detector. (4 marks)
- ii) Outline TWO methods of testing a product in flight metal detector. (2 marks)
5. a) Describe the operation of a turntable pallet stretch wrap machine. (4 marks)
- b) Outline FIVE disadvantages of multi-storey warehouses. (5 marks)
- c) List THREE methods of storing unit loads of flour in a warehouse. (3 marks)
6. a) i) List THREE advantages of a hand pallet truck. (3 marks)
- ii) List THREE disadvantages of a hand pallet truck. (3 marks)
- b) Sketch and label the “logistics cycle” model. (6 marks)
7. a) Outline FIVE duties of a transport manager. (5 marks)
- b) For EACH of the following number of authorised vehicles, state the number of hours a transport manager is expected to work under UK legislation.
- i) 3 to 5 vehicles;
- ii) 11 to 14 vehicles;
- iii) More than 50 vehicles. (3 marks)
- c) List FOUR components of a good vehicle maintenance system. (4 marks)
8. a) List FIVE records that should be kept to demonstrate the control of insect infestation. (5 marks)
- b) Describe THREE alternative pest control methods developed to overcome insect resistance to Phosphine and the withdrawal of Methyl Bromide. (6 marks)
- c) Explain the term “bait shyness”. (1 mark)