

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE, NOVEMBER - 2023**

MATERIAL HANDLING

[Maximum marks: 75]

[Time: 3 Hours]

PART A

I. Answer all the following questions in one word or one sentence. Each question carries 1 mark

(9 x 1 = 9 Marks)

		Module outcome	Cognitive level
1	Give the classification of material handling equipments.	M1.01	U
2	What is meant by stacking in material handling?	M1.02	R
3	Define a hoist.	M2.01	R
4	List any two load handling attachments.	M2.02	R
5	List any two common types of hooks	M2.02	R
6	What is meant by traction type conveyor system?	M3.01	R
7	List any two types of belt conveyors.	M3.01	R
8	What do you mean by Floating Cranes?	M4.03	R
9	List any two types of Elevating equipments.	M4.04	R

PART B

II. Answer any eight questions from the following. Each question carries 3 marks.

(8 x 3 = 24 Marks)

		Module outcome	Cognitive level
1	List the various types of movements in material handling.	M1.01	R
2	Explain Containerization.	M1.02	U
3	List the components of Flexible hoisting equipments.	M2.01	R
4	Define Standard hooks and Ramshorn hooks.	M2.02	R
5	List the various types of cross handling equipments.	M2.02	R
6	Briefly explain Arresting gear mechanism.	M2.03	U
7	Explain the principle of Escalators.	M3.01	R
8	Briefly explain the working of Industrial trailers.	M3.03	U
9	List the different types of Hoists.	M4.02	R
10	Briefly explain Industrial lifts.	M4.04	U

PART C

Answer all questions. Each question carries seven marks

(6 x 7 = 42 Marks)

		Module outcome	Cognitive level
III	Write short note on Bulk material handling equipments. OR	M1.01	U
IV	List any four material handling equipments and their areas of application.	M1.03	U
V	List the advantages and disadvantages of Welded loaded chain. OR	M2.01	U
VI	Explain the construction and working of Electromagnetic brakes in material handling system.	M2.04	U
VII	Explain the features of Chain type conveyors. OR	M3.01	U
VIII	Explain the working of the Pneumatic conveyor.	M3.02	U
IX	Explain the principle of an Oscillating conveyor. OR	M3.02	U
X	Explain the features of Gravity type conveyors.	M3.02	U
XI	What is a hoist? Explain the working of a Lever operated hoist. OR	M4.01	U
XII	Briefly explain the working principle of a Bridge crane.	M4.03	U
XIII	Explain Derrick Cranes. OR	M4.03	U
XIV	Briefly explain the Safety principles in material handling.	M4.04	U
