

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, APRIL - 2024**

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 'one' marks.

(9 x 1 = 9 Marks)

Module Outcome Cognitive level

1	Explain the term material handling.	M1.01	U
2	What is meant by unit load in material handling?	M1.02	R
3	List the components of flexible hoisting appliance.	M2.01	R
4	What is meant by winches?	M2.02	R
5	List any two load handling attachments.	M2.02	R
6	What is meant by traction type conveyor system?	M3.01	R
7	List any two traction less type conveyors.	M3.02	R
8	List any two types of hoists.	M4.02	R
9	What are Rotary Cranes?	M4.03	R

PART - B

II. Answer any eight questions from the following. Each question carries 'Three' 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 Palletization.	M1.02	U
3	What is meant by welded loaded chain?	M2.01	R
4	What are the various types of load handling attachments?	M2.02	U
5	What is the use of brakes in material handling system?	M2.03	R
6	Write short note on Capstans.	M2.04	R
7	Explain AGV.	M3.03	U

8	Give the principle of a Hydraulic conveyor.	M3.03	R
9	List the different types of Cranes.	M4.03	R
10	Explain Freight elevators.	M4.04	U

PART - C

Answer all the questions from the following. Each question carries 'seven' marks.

(6 x 7 = 42 Marks)

Module Outcome Cognitive level

III.	Give the main classification of material handling equipments. Explain any one type. OR	M1.01	U
IV.	List the factors affecting the choice of material handling equipments. OR	M1.03	U
V.	Explain the use of arresting gears and Ratchet gearing in material handling systems. OR	M2.03	U
VI.	Explain the construction, and working of Electromagnetic brakes in material handling system.	M2.04	U
VII.	Explain the features of Bucket type elevators. OR	M3.01	U
VIII.	Explain the features of Screw type conveyors.	M3.02	U
IX.	Explain Chain type conveyors. OR	M3.01	U
X.	Explain the features of Roller type conveyors.	M3.02	U
XI.	What is a hoist? Explain any two types of hoisting equipments. OR	M4.01	U
XII.	Briefly explain the working principle of a mobile crane.	M4.03	U
XIII.	List the different types of elevating equipments and explain stackers. OR	M4.04	U
XIV.	Briefly explain the Safety principles in material handling.	M4.04	U
