

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

MATERIALS 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	What are the different types of movement?	M1.01	R
2	List the methods of stacking.	M1.02	R
3	What is meant by Hemp ropes ?	M2.01	R
4	List the Components of Flexible hoisting appliances	M2.02	R
5	List the various types of hooks.	M2.02	R
6	What is the use of a conveyor?	M3.01	R
7	List any two traction type conveyors	M3.01	R
8	List the different types of hoisting equipments.	M4.01	R
9	What is meant by Stackers?	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 Material handling equipment.	M1.01	R
2	Give the principle of containerization.	M1.02	R
3	Write short note on Welded load chains.	M2.01	R
4	Explain Transfer tables.	M2.02	U
5	Write short note on Winches.	M2.02	R
6	Explain the use of brakes in material handling system.	M2.03	U
7	Explain about Industrial Trailers.	M3.03	U
8	Write short note on Vibrating type conveyors.	M3.03	R
9	Write note on differential hoists.	M4.01	R
10	Explain Bridge cranes.	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.	List any four principles of materials handling and explain the planning principle. OR	M1.03	U
IV.	Explain the maintenance needed for material handling equipment.	M1.04	U
V.	Explain the function of monorail conveyors. OR	M2.02	U
VI.	Explain the working of turntables in material handling system.	M2.02	U
VII.	Explain the principle of working of Escalators. OR	M3.01	U
VIII.	Explain the features of Oscillating conveyors.	M3.02	U
IX.	Explain the features of Roller type conveyors. OR	M3.01	U
X.	Explain the features of Pneumatic type conveyors.	M3.02	U
XI.	What is a hoist. Explain Lever operated hoist. OR	M4.01	U
XII.	Briefly explain the working of a Rotary crane.	M4.03	U
XIII.	Explain Industrial lifts. OR	M4.04	U
XIV.	Briefly explain the principle of a hydraulic lift.	M4.04	U
