



## **BRAINWARE UNIVERSITY**

Term End Examination 2023-2024
Programme – Dip.ME-2021
Course Name – Material Handling
Course Code - DME505A
( Semester V )

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

1

c) Fluidization

(viii) Select the correct use of camshell grab for lifting

	(Multiple Choice T		
	Choose the correct alternative from the following		
(i)	Economy in material handling can be achieved by		
(ii)	a) employing gravity feed movements     c) by carrying material to destination without using manual labour     Identify the correct use Cranes	b) minimizing distance of travel d) all of the mentioned	
(iii)	a) lifting and lowering c) both 'a' and 'b' Principle of 'Unit load' states that	b) vertical transportation d) None of the mentioned	
(iv)	<ul><li>a) materials should be moved in lots</li><li>c) both 'a' and 'b'</li><li> used to transfer materials in assemble</li></ul>	b) one unit should be moved at a time d) None of the mentioned oly line in industries.	
(v)	<ul><li>a) Belt conveyor</li><li>c) Bull dozer</li><li>Select the material handling used in automobile</li></ul>	b) Industrial truck d) Screw jack industry	
	<ul><li>a) overhead crane</li><li>c) belt conveyor</li><li>Select the correct activity of transporting any m</li></ul>	b) trolley d) all of the mentioned	
	a) Transportation     c) Material handling     Identify the correct mention condition for pneu	b) Movement d) Loading	
	a) High pressure	b) Vacuum	

d) Any of the mentioned

1 x 15=15

	a) unit loads	b) steel structures	
	c) bulk materials like coal	d) steel scrap	
(ix)	Identify the belt conveyors have low volume	e carrying capacity.	
	a) flat belts	b) troughed belts	
	c) both A&B	d) None of the mentioned	
(x)	Traveling down a ramp or inclined		
(~)	a) Back down when loaded	b) Back up when loaded	
	c) Always back down	d) Use your own judgement	
(xi)	Select essential requirement of a good mate		
(,,	a) capital cost expenditure	b) flexibility reduction	
	c) saleability of plant and equipment	d) storing materials utilising minimum s	nace
(xii)	select that can get under a raised load to ch	를 보여 있다. 그리고 있는 것이 하는 것은 것이 있는 것이 없는 것	
	a) For debris that may fall off	b) To be sure that the fork position is co	rrect
	c) Never get under a raised load d) Whenever you feel it is necessary		
(xiii)	Identify the option due to which Forklift acc	점점 보고 있는 아니는 사람들은 경우 전에 가장 하는 것이 없는 것이었다면 없어요.	
	a) Tips over or falls off loading dock	b) Stalls	
	c) Isn\'t warming up	d) None of the mentioned	
(xiv	Slat belts are made up of		
	a) Wood	b) Plastic	
	c) Metal	d) Any of the mentioned	
(xv)		al transportation of aggregates and wet	
	concrete on large project sites.		
	a) Elevators	b) Trucks	
	c) Conveyors	d) Escalators	
	9, 66,119,119		
		Group-B	
	(Short Ans	wer Type Questions)	3 x 5=15
2. N	ame three major components of the robots	with their function.	(3)
	rite the application of fork lift truck.		(3)
4. Define hoisting equipment.		(3)	
	iscuss the advantages of using steel wire rop	pe over chain.	(3)
	plain the application of universal vise.		(3)
		OR	
E	plain the application of ball table		(3)
		Group-C	5 x 6=3
	(Long Ans	wer Type Questions)	5 X 0=3
7 [	Differentiate between gravity and powered	roller conveyor.	(5)
8. E	- 1 to the animal-last of material handling		(5)
9. (	Compare a passenger conveyor and load cor	nveyor.	(5)
10 F	recall the applications of material handling	equipments with example .	(5)
11 1	Describe the tasks the robots perform and the	he impact on productivity.	(5)
17 5	explain the potential challenges and consider	erations involved in designing such a chute to	(5)
12. 0	ensure efficient material flow		
		OR	
	xplains the primary purpose of a chute in n	naterial handling.	(5)
OR STREET, SQUARE, SQU			