PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY

Diploma Engineering, Mid semester Examination

| Diploma Engineering, wild semester Examination | |
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| Semester: 4th | Date: 23/1/2023 |
| Subject Code: 03609285 | Time: 7:50 to 9:20 am |
| Subject Name: Material Handling system | Total Marks: 40 |
| Instructions. | |

Instructions:

1. Attempt all questions.

2. Make suitable assumptions wherever necessary.

3. Figures to the right indicate full marks.

4. English version is considered to be Authentic.

| Q.1 Answer any six out of Ten. (2 Marks Each) | (12) | Co/Po Name | Blooms Taxonomy Words |
|--|------------------------------|---------------|-----------------------------|
| 1. Define Material Handling System? | | | Knowledge |
| 2. Describe the needs of Material Handling Sy | stem? | | Understand |
| 3. Define Hoist. | | | Knowledge |
| 4. Define Mobile Crane? | | | Knowledge |
| 5. Define full form of AGV and ASRS. | | | Knowledge |
| 6. Write down advantages of conveyors | | | Apply |
| 7. Write down types of cranes | | | Apply |
| 8. Express Why Escalators are used ? | | | Create |
| 9. For moving wheat or powder which type of equipment is used? | f Material handling | | Evaluate |
| 10. Enlist main types of Material handling equi | pment | | Knowledge |
| Q.2 A) Describe Principles of Material Handling S | ystems? Explain any one (03) | | Understand |
| OR | | | |
| A) Describe classification of load. | (03) | | Understand |
| B Describe the benefits of Truck mounted crane | e. (03) | | Apply |
| OR | | | |
| B) Explain Winch and write two types of winch | les (03) | | Analyze |
| C) Describe benefits of Hoisting Equipment's | (04) | | Understand |
| OR | | | |
| C) Write Classification of Material Handling Sy | rstem (04) | | Create |
| D) Write down advantages and disadvantages of | f gravity conveyors (04) | | Create |
| Q.3 A) Develop drawing of Belt conveyors, | (03) | | Create |
| OR | | | |
| A) Develop drawing of Chain conveyors, | (03) | | Create |
| B) Explain Bucket elevators with neat sketch. | (03) | | Analyze |
| OR | | | |
| B) Sketch Screw conveyor. | (03) | | Apply |
| C) What are the Objectives of Material Handlin | g System (04) | | Create |
| OR | | | |
| C) Make Chain Hoist diagram and explain | (04) | | Create |
| D) Prepare Sketch of Tower Crane and explain | it. (04) | | Create |