

Student Id : ANSWOR

## IE 473 Material Handling Systems

Name Last Name : SHEET

## QUIZ #1

1. [20 pts] Briefly describe why this course is important for your future career?

- Analytical models - Cost reduction
- Handling Technology - Improvement
- MH Equipments
- A major component in Systems Design
- Practical information

2. [20 pts] What is material handling (a brief definition)?

is the art & science of moving, storing, protecting and controlling material, providing right amount of the right material, in the right condition, at the right place, at the right time, in the right position, in the right sequence, for the right cost, using the right methods.

3. [1 pt each] Write down the principles of material handling:

Orientation, Planning, Systems, Unit load, Space Utilization, Standardization, Ergonomic, Energy, Ecology, Mechanization, Flexibility, Simplification, Gravity, Safety, Computerization, System Plan, layout, Cost, Maintenance, Obsolescence

4. [20 pts] Give examples in the context of idealized system design:

Current system:Recommended system:Technologically workable ideal system:Ultimate ideal system:Theoretical ideal system:

5. [20 pts] Briefly describe the contents of the course IE 473, to be covered throughout the semester:

Introduction to MH, Definition, Goals & Objectives, principles, MH System Design Relationship with layout, MH System Analysis, Unit load, MH Equipments Storage & Handling, Conveyor models, AOV System, Order picking, AS/R System, Carousels, Storage models, Space utilization!