
Material Handling Equipment Alexandrov Pdf Download

Registration No :

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B.Tech.
PCML4304

6th Semester Back Examination 2017-18
MATERIAL HANDLING SYSTEMS
BRANCH: MINERAL, MINING

Time : 3 Hours

Max Marks : 70

Q.CODE : C212

LectureNotes.in
Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1** Answer the following questions : (2 x 10)
- a) What is the safety devices fitted in a belt conveyor system?
 - b) What precautions should workers take when moving materials manually?
 - c) Explain Merry-go-round systems.
 - d) Write the limitations of Automated Material Handling Systems.
 - e) Write different types of gates used in bulk material handling system.
 - f) What is the meaning of Stack yard?
 - g) What is the mass capacity of flat belt conveyor if volumetric capacity 0.45 m³/hr? ($\rho = 1550 \text{ kg/m}^3$)
 - h) Explain arching or bridging of a bin?
 - i) Describe the factors considered for selecting a material handling system.
 - j) Identify the difficulties in Manual handling.
- Q2** a) What are the factors influencing selection of equipment in material handling? (5)
b) Describe Hoisting Equipments. (5)
- Q3** a) What are the objectives of material handling? Enumerate the basic principles of materials handling in detail. (5)
b) Describe the design and construction of Silos with neat diagram. (5)
- Q4** Sketch a belt conveyor & label the parts. Explain the components of a belt conveyor. How their maintenance is carried out? (10)
- Q5** a) Draw and explain pneumatic conveyor and its functions. (5)
b) Describe stacking and blending technique with a diagram. (5)
- Q6** a) List the features of chute and its application. (5)
b) Differentiate between unit load and bulk load. (5)
- Q7** a) Explain the working of a screw feeder with neat sketch. (5)
b) Compare Hydraulic and pneumatic conveyors. (5)
- Q8** Write short notes on any TWO : (5 x 2)
- a) Fork lift
 - b) Belt tension
 - c) Cranes
 - d) Construction of a winch

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