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S4-711

B.Sc. DEGREE EXAMINATION – AUGUST/SEPTEMBER, 2021.

SECOND YEAR

FOURTH SEMESTER

CEMENT SCIENCES

(Regular & Supplementary)

Paper – I : MATERIAL HANDLING SYSTEM AND SAFETY IN CEMENT PLANT

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer any FIVE of the following questions.

(5 × 5 = 25 marks)

1. The material flow
2. Flexibility
3. Conveyors
4. Hoists
5. Linear Programming
6. Queuing theory
7. Evaluation of intermediate cost factor
8. Evaluation of investment alternatives
9. Accident investigation system
10. Method for computation of frequency

SECTION – B

Answer ALL the questions.

(5 × 10 = 50 marks)

11. (a) Explain the objectives and benefits of belter handling.

Or

- (b) Give an account on safety and mechanisation equipment selection.

Turn Over

12. (a) Describe about planning the unit load systems and unit load efficiency

Or

- (b) Write notes on cranes and elevators.

13. (a) Discuss the quantitative technique for material handling analysis.

Or

- (b) Give in detail on transportation programming and dynamic programming.

14. (a) Explain the evaluation of intangible factors.

Or

- (b) Write about the determination of total handling cost of material handling.

15. (a) Discuss the importance of safety performance and its monitoring.

Or

- (b) Explain the concept of root cause analysis.
