Exam Syllabus:

Syllabus for IE/OR, Manufacturing section: Tolerance design; Quality and cost considerations; Product life cycle; Standardization; Value engineering and analysis; Taylor's scientific management, Gilbreths' contributions; Productivity – concepts and measurements; Method study, micro-motion study, principles of motion economy; Work measurement – time study, work sampling, standard data, PMTS; Ergonomics; Facility location factors and evaluation of alternate locations; Types of plant layout and their evaluation; Linear programming, Transportation and assignment models; Integer programming; Markovian queuing models; Elementary cost accounting and methods of depreciation; Break-even analysis; CPM, PERT and Gantt chart. Time-cost tradeoff.