8E4050 B. Tech. VIII Semester (Main/Back) Examination-2014 MECHANICAL ENGINEERING # OMEO Min. Passing Marks: 24 Total Marks ime: 3 Hours Instruction to Candidates: Attempt any five questions, selecting one question from each unit. All questions carry equal marks (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.) Unit-T 3. Describe the various steps involved to MRP system 1. What is the importance of production function. State the benefits and limitations of MRP. Distinguish production management and operations Unit-'IV' management. 4. Explain following OR (a) Routing 1. (a) How is operations strategy related to business 116 (b) Scheduling strategy? How does operations strategy impact business strategy? [8] OR 4. (a) What do you understand by planning and control? (b) Explain the concept of productivity. What are the factor affecting the productivity? Give its objectives. [8] [8] (h) Explain the follow up of PPC. 18 Unit-'II' Unit-'V' 2. (a) What is continuous and batch production? What are its characteristics, advantages and limitations? 5. (a) Explain what do you mean by a material with independent demand. Give an example and explain? [8] why its demand is independent? (b) Explain the factors affecting process planning. (h) A firm uses every year 16000 units of a ray [8] material costing Rs. 1.5 per unit Ordering cost Rs. 12 per order and holding cost is 5% per year OR of average inventory. 2. (a) Define the term process planning. [4] (i) Find EOQ (b) Explain the various steps involved in process (ii) The firm follows EOQ purchasing policy planning. [12] operates for 300 days per year. Procurent time is 14 days and safety stock is 400 un Unit-'III' Find the reorder point, the maximum inve What is MRP II? How does it differ from MRP? and average inventory. [8] OR What is master production? Explain the functions 5. What are objectives and functions of mai of master production schedule. [8] management? Derive EOQ.