



UNIVERSITY OF EMBU

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF COMMERCE

DOM 301: OPERATIONS MANAGEMENT AND PRACTICE

DATE: APRIL 11, 2018

TIME: 11:00 AM – 1:00 PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

- a) Briefly discuss the functions of Production Management. (4 marks)
- b) Explain facility layout objectives. (5 marks)
- c) Describe the factors to consider before developing an aggregate plan. (4 marks)
- d) Explain the characteristics of Materials Requirement Planning (MRP) (5 marks)
- e) Scheduling strategies vary widely among firms and range from 'no scheduling' to very sophisticated approaches. Explain any FOUR scheduling strategies. (4 marks)
- f) Describe the inputs needed for capacity requirements. (4 marks)

- g) Explain the objectives of inventory management at the local business. (4 marks)

QUESTION TWO (20 MARKS)

- a) Identify and explain different types of layouts and their characteristics. (12 marks)
- b) Explain the main functions of Master Production Schedule (MPS) (8 marks)

QUESTION THREE (20 MARKS)

- a) Discuss the different demand-based and capacity-based options used in aggregate planning and their implications for a company. (10 marks)
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- b) Discuss the factors considered in determining layout and design (10 marks)

QUESTION FOUR (20 MARKS)

- a) Define Production Planning and Control and explain the objective of production Planning and control department. (10 marks)
- b) Discuss the strategies of capacity planning used by organization. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Explain the benefits of capacity resource planning (10 marks)
- b) Explain the benefits of Materials Requirement Planning (MRP) (10 marks)

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