



B.E DEGREE EXAMINATIONS: APRIL 2015

(Regulation 2009)

Seventh Semester

MECHANICAL ENGINEERING

MEC121 : Production Planning and Control

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. _____ is a follow up activity
 - a) Expediting
 - b) Scheduling
 - c) Progressing
 - d) Loading
2. Fatigue is concerned with
 - a) Unemployment
 - b) Human effort
 - c) Material movement
 - d) Job dissatisfaction
3. Higher set up time is the characteristic of
 - a) Mass production
 - b) Continuous production
 - c) Job shop production
 - d) Lean production
4. Chemical process industries are classical examples of
 - a) Mass production
 - b) Continuous production
 - c) Job shop production
 - d) Lean production
5. Preparation costs are also called as
 - a) Set up costs
 - b) Inventory carrying costs
 - c) Total costs
 - d) Storage costs
6. The capacity dictated by regulatory services is called as
 - a) Design capacity
 - b) Licensed capacity

b) Elaborate the steps involved in product design.

22. a) Explain the steps involved in work study

(OR)

b) Discuss the various recording techniques in method study

23. a) Define minimum cost batch size? Derive an expression for the same

(OR)

b) Compare and contrast manual process planning with CAPP

24. a) Discuss the concept, inputs, outputs, working and benefits of MRP

(OR)

b) Four different jobs are to be done on 4 machines. The matrix below gives the costs of producing each job i on each machine j . How should these jobs be assigned to the machine so that the total cost is minimum?

<i>Jobs</i>	M/ce 1	M/ce 2	M/ce 3	M/ce 4
<i>I</i>	5	7	11	6
<i>II</i>	8	5	9	6
<i>III</i>	4	7	10	7
<i>IV</i>	10	4	8	3

25. a) Elaborate the concept of JIT in detail

(OR)

b) Contrast selective inventory control techniques practiced in industries
