

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)**



**उत्तराखण्ड मुक्त विश्वविद्यालय हल्द्वानी (नैनीताल)**

**Programme Name-MBA-Third Semester**

**Programme Code-MBA-12**

**Course Name- Production planning and control**

**Course Code- MU 2403**

**Maximum Marks-40**

**Session -2013-14,Summer**

**Last Date of Submission: 15 January , 2014**

**Section-A**

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**Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.**

**Discuss the following (1-8) –**

1. Objectives of production planning.
2. Aggregate capacity planning.
3. Materials requirement planning (MRP)
4. Linear programming problem
5. Decision Tree Analysis
6. Need for product design and development.
7. Monte Carlo Simulation
8. Computer Aided Engineering

**Section-B**

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**Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.**

1. List and briefly discuss different techniques of production planning and control.
2. Explain the role of Gantt chart in planning with an example.
3. A firm makes a contribution to Rs. 10 and Rs 12 from the products A and B, respectively, which it manufactures. One unit of A requires 2 units of raw material-I and 3 units of raw material –II and B requires 1 unit of material –I and 4 units of material II. The firm has 60 units of material-I and 120 units of material –II. Find the optimum number of units of A and B that are required to maximize the total profit.
4. Discuss the various characteristics of Just in time (JIT) in detail.