

Day: Monday  
Date: 13/11/2017

Time: 02.00 PM TO 05.00 PM  
Max. Marks: 100

W-2017-1751

N.B:

- 1) Attempt ANY FOUR questions from Section-I. Each question carries 15 marks.
- 2) Attempt ANY TWO questions from Section-II. Each question carries 20 marks.
- 3) Figures to the right indicate FULL marks.

#### SECTION-I

- Q.1 Explain the concept of Production and Operations Management. Describe in brief the relation of Production function with Marketing, Finance and Human Resource Management. (15)
- Q.2 Define Job sequencing. Explain the various (criteria) priority sequencing rules used for Job sequencing. (15)
- Q.3 Explain the objectives of plant layout. Enlist the different factors affecting plant layout. (15)
- Q.4 Define Inventory. Explain the characteristics and components of Inventory. (15)
- Q.5 Write short notes on (ANY THREE): (15)
- a) SCM (Supply Chain Management)
  - b) Importance of Maintenance function
  - c) Objectives of PPC (Production Planning and Control)
  - d) Product selection

#### SECTION-II

- Q.6 A company purchases 15625 units of Raw material at Rs. 12 per unit to meet its entire annual requirement. The ordering cost comes to be Rs. 60 per order and inventory carrying cost is Rs. 1.20 per unit, find out: (20)
- |                          |                          |
|--------------------------|--------------------------|
| i) EOQ                   | ii) Total order cost     |
| iii) Total carrying cost | iv) Total inventory cost |
- Q.7 Explain in detail the factors affecting plant location decision for the following: (20)
- i) Super Speciality Hospital
  - ii) Soft Drink Bottling Plant
- Q.8 Discuss the issues involved in Environmental Health and Safety (EHS) for the cement industry. (20)