



**LIIHMR UNIVERSITY**  
**School of Pharmaceutical Management**  
**Master of Business Administration**  
**Pharmaceutical Management**  
**Batch-9<sup>th</sup> (2017-2019) Second Year**  
**Pharmaceutical Production Management**

**Term Examination**

**Time - 3 Hour**

**MM-70**

*Note: The Question paper has been divided in 2 sections, Section A & B. Each Section is of 35 marks. The question paper contains 1 printed page.*

**(Section A)-35 Marks**

*Attempt all questions*

- Q1. What is system productivity? Also describe various method of capital productivity? **12.5**
- Q2. Define work study and elaborate how work study is important from pharmaceutical perspective? **12.5**
- Q3. Short notes any (2) **(2x5=10)**
- a) Plant location
  - b) Production Planning & Control
  - c) Performance measurement

**(Section B)-35 Marks**

- Q4. Describe following: **(14)**
- A) Managing manufacturing and service operations through project management
  - B) Use of Network Crashing in production Management

Q5. The production process of a company is described under the heading "Process" in the table below: **(21)**

- a) Determine the critical path and describe the ES, EF, LS, LF and floats (Total, Free, Independent, Inferential) from the given table.
- b) Draw a Gantt chart for the given data

| Process      | 1-2 | 2-3 | 3-4 | 1-3 | 2-4 |
|--------------|-----|-----|-----|-----|-----|
| Time (weeks) | 4   | 1   | 7   | 3   | 6   |