

**C 56251-A**



Name.....

Reg. No.....

**EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE  
EXAMINATION, JUNE 2009**

**ME 04 802—OPERATION MANAGEMENT**

**(2004 admissions)**

**Time : Three Hours**

**Maximum : 100 Marks**

*Answer all questions.*

1. (a) What are the key assumptions in each of the three decision-making approaches ?  
(b) What do you mean "slack" and list out its significance ?  
(c) List out the functions of inventories.  
(d) What do you mean (i) Sensitivity analysis ; and (ii) Quantity discounts.  
(e) Differentiate production planning and process planning.  
(f) List out the factors affecting scheduling.  
(g) List out layout design procedure.  
(h) Explain fixed position layout.

**(8 × 5 = 40 marks)**

2. (a) Explain the following in detail :—

(i) Single stage decisions under risk.

**(9 marks)**

(ii) Multistage decision.

**(6 marks)**

*Or*

- (b) Explain the difference between CPM and PERT in detail.

3. (a) Explain dynamic inventory models under risk.

*Or*

- (b) Explain the types of inventories maintained by various organisations in detail.

4. (a) Explain the factors to consider in setting priorities for job in detail.

*Or*

- (b) Explain scope and objectives of production planning and control.

5. (a) Explain ALDEP in detail.

*Or*

- (b) Explain the following in detail :—

(i) SLP.

**(9 marks)**

(ii) Computerised layout planning.

**(6 marks)**

**[4 × 15 = 60 marks]**