AE – 1983

II Sem. MBA Examination, September 2001
(Semester Scheme)
2.4 B: PRODUCTION AND OPERATION MANAGEMENT

Time: 2 Hours Max. Marks: 50

SECTION – A

1. Answer any **three** sub questions. **Each** question carries 2 marks. (3×2 = 6)
   a) What are the broad components of technology?
   b) How do you define productivity?
   c) How do you define plant layout?
   d) What is the difference between 'C' chart and 'P' chart? (State the important one)
   e) What are the components of 'quality cost'?

SECTION – B

Answer any **three** questions. **Each** question carries 5 marks. (3×5 = 15)

2. Briefly state the important locational considerations for setting up a sheet metal fabrication shop.
3. What are the choices available for a production manager to balance demands on output fluctuation on a short term basis?
4. How is FMS different from conventional batch production?
5. Why is it that production manager's job is 'behind the scene' and 'unglamorous'?
6. How do you accomplish an optimum total maintenance cost?

SECTION – C

Answer any **two** questions. **Each** question carries 8 marks. (2×8 = 16)

7. Compute the economic order quantity, given the following:

No. of Units bought at a time	Price per Unit Rs.
Less than 1000	10.00
1000 to 2999	9.85
3000 and above	9.70

The order cost is Rs. 60 per order and carrying cost is 20% of the price.

8. Discuss the problem in routing and scheduling that might be faced by an airline such as Indian Airlines. As their operation planning manager how would you sort out the problem?

P.T.O.

9. Outline the basics of ISO 9000 standards. Does compliance of this lead to TQM?

10. What is the fundamental difference between the use of acceptance sampling plans and process control charts?

SECTION – D

This is compulsory and carries 13 marks.

11. Given the following:

Activity	Immediate Predecessor	Duration in days
A	–	9
B	–	20
C	–	10
D	A	11
E	C	10
F	B, C	4
G	F	2
H	D, F	5
I	E F, K	18
J	G, H	14
K	–	24
L	K	6

a) Draw the CPM diagram.

b) Find out the critical activities.

c) Compute the total, free and independent floats for activities E, D, G, H and L.