

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA - SEMESTER– II • EXAMINATION – SUMMER 2015

Subject Code: 820006

Date: 01/06/2015

Subject Name: Production and Operations Management (POM)

Time: 10.30 AM TO 01:30 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain the Transformation Process with suitable example. **07**
(b) What is the difference between Goods and Services? **07**
- Q.2** (a) Explain the characteristics of Modern Manufacturing. **07**
(b) What are the important factors, a production manager should consider while selecting the location? **07**

OR

- (b) Discuss: Product Layout and Fixed Position Layout with diagram. **07**
- Q.3** (a) Distinguish between in-process inventory, safety stock inventory, and seasonal inventory. **07**
(b) Distinguish between pure and mixed strategies in production planning. **07**

OR

- Q.3** (a) Explain the scheduling n Jobs on m Machines **07**
(b) What is network diagram? Distinguish between AON and AOA diagrams. **07**
- Q.4** (a) Draw the network diagram for the data given below: **07**

Activity	Immediate Predecessor Activity
A	-
B	A
C	A
D	B, C
E	C
F	D
G	E
H	F, G

- (b) In what way might the first-come, first-served rule be unfair to the customer waiting for service in a bank or hospital? **07**

OR

- Q.4** (a) What is outsourcing? State the reasons why firm should go for outsourcing? **07**

- (b) Draw a network diagram for the activities given below and determine the critical path. **07**

Activity	Description of activity	Duration of activity	Immediate Predecessor Activity
A	Design Plant	12	-
B	Select Site	8	A
C	Select Vendor	4	A
D	Select Personnel	3	A
E	Prepare Site	12	B
F	Manufacture Generator	18	C
G	Prepare Operational Manual	5	C
H	Install Generator	4	E, F
I	Train Operators	9	D, G
J	Obtain Licence	6	H, I

- Q.5 (a) Explain the concept of Total Quality Management. **07**
(b) Explain: DMAIC **07**

OR

- Q.5 (a) Discuss: ISO 9000 and ISO 14000 **07**
(b) Discuss the purpose of and difference between p chart and R charts **07**
