Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MBA (INTEGRATED) – SEMESTER – 08 -- EXAMINATION – SUMMER - 2017

Subject Code: 4180503 **Date: 03/06/2017**

Subject Name: Operation Management

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)** What is the production ,planning and control ? Explain its objectives and functions in detail . **07**

(b) Explain in detail difference between manufacturing and service operations . **07**

Q.2 **(a)** What do you understand by Quality and Quality management ? Discuss various product quality dimensions . **07**

(b) Write in detail functions of production and operation management . **07**

OR

(b) From the following information Draw Network diagram and find critical path and also calculating EST,EFT,LST,LFT,TF . **07**

Activity	A	B	C	D	E	F	G	H	I
Predecessor	-	A	A	A	B	CD	EF	D	GH
Time	1	4	3	7	6	2	7	9	6

Q.3 **(a)** Briefly discuss various method of Job scheduling for N job on machine . **07**

(b) Discuss material handling principles and classify material handling equipments **07**

OR

Q.3 **(a)** what do you mean by term SQC ? How to maintain it in any company, organization and industry ? **07**

(b) Find the minimum total elapse time and also show Ideal Time by using Johnson's rule from the following details: **07**

Job	**Machine – A**	**Machine –B**
A	3	2
B	6	8
C	5	6
D	7	4

Q.4 **(a)** Explain difference between term Inspection and Quality control . **07**

(b) Write a short note on facility location .How its utilized in operation management ? **07**

OR

Q.4 **(a)** Difference between PERT and CPM for the point of view of Network diagram. **07**

(b) Explain the following terms : **07**

a) OC
b) ABC
c) Product design
d)AQL
e) EOQ
f) PPC

Q.5 **(a)** (a) Write a short note on : **07**

i) Inventory management

ii) Project management (project control system)

(b) "Operation management is transformation process " support this statement with example if you are agree with it . **07**

OR

Q.5 **(a)** what are the main reasons affecting to maintain performance level of company ? **07**

(b) Draw the C Chart and give suitable conclusion . **07**

The No. of defects noticed in 20 cloth pieces are given below :

1	4	3	2	5	4	6	7	2	3
2	5	7	6	4	5	2	1	3	8

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