

Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)



Fifth Semester B. Tech. (Electronics & TC)

Summer 2011

Course Code: ET 605

Course Name: Industrial Management & Quality Control

Time: 2 Hrs. 30 Min.

Max. Marks: 60

Instructions to Candidate

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
- 5) Figures to the right indicate full marks.

✓ 1 Explain the factors controlling 'Quality of Design and Conformance'. Also explain the concept of Process Control and Process Capability. 12

✓ 2 Explain the difference between Management and Administration. Explain the typical relationship between various levels of organization structure and its members. 12

✓ 3 What do you mean by 'Production Planning and Control'? Substantiate your answer by giving appropriate example. Also explain a typical relationship between consumer behavior and purchasing department. 12

OR

b Prepare a Project report for the New Manufacturing Unit at MIDC area of Amravati. 12

4/a Explain with their importance in business, the concept of Break Even analysis and Variance analysis. 6

b Explain briefly all the functions of management. 6

OR

c Discuss various problems of Labour turnover and their retention. 6

5 Explain the concept of Quality assurance and Kaizen. What are the elements of TQM? Also explain briefly the Quality Audit system in a manufacturing unit. 12

product. Ordering cost is Rs 125 per order and the carrying cost per unit per year is 20% of the purchased price per unit. The purchase price per unit is Rs75.

Find	1] EOQ	2
	2] No of orders per year	2
	3] Time between successive orders	2

b)	Write short note on	
	1] scope and limitations of operation research	3
	2] various styles of leadership with example	3

Government College of Engineering, Amravati
(An Autonomous Institute of Government of Maharashtra)

Sixth Semester B. Tech.
(Electronics and Telecommunication)

Summer – 2016

Course Code: ETU605

Course Name: Industrial Management and Operations Research

Time : 2 Hrs. 30 Min.

Max. Marks: 60

Instructions to Candidate

- 1) All questions are compulsory.
- 2) Assume suitable data wherever necessary and clearly state the assumptions made.
- 3) Diagrams/sketches should be given wherever necessary.
- 4) Use of logarithmic table, drawing instruments and non-programmable calculators is permitted.
- 5) Figures to the right indicate full marks.

1. Answer Any Two

- a) Discuss "Management is the articulated Science" 6
- b) Justify "Direction means putting Management into action". 6
- c) Explain F.W. Taylor's scientific theory of Management. 6

Contd..

2. Answer Any three

- a) Discuss the various psychological factors affecting the consumer behaviors. 4
- b) What is meant by 'production planning and control'. 4
- c) 'Marketing Research must be carried out before designing the product'. Why? 4
- d) If you are a marketing manager in cosmetic industry, how you will do the Market Segmentation for your product. 4

3. Answer any Two

- a) If you happen to be a plant safety officer in chemical industry, what measures you will take to ensure safety in the plant? 6
- b) With the help of neat sketch, explain the Maslow's Motivational theory. 6
- c) What is meant by Ratio Analysis? Explain 'Liquidity ratio'. 6

4. a) Solve
The company is facing the problem of assigning five jobs to five machines. Each job must be done on only one machine. The cost of processing each job on each machine is given below 6

	M1	M2	M3	M4	M5
J1	7	5	9	8	11
J2	9	12	7	11	10
J3	8	5	4	6	9
J4	7	3	6	9	5
J5	4	6	7	5	11

- b) Obtain the initial basic solution using North West Corner method and Least Cost Method and compare the result in following transportation problem 6

		WAREHOUSE			
		1	2	3	supply
PLANT	1	7	6	9	20
	2	5	7	3	28
	3	4	5	8	17
Demand		21	25	19	65/65

5. a) Solve the followings
Alpha industry needs 15,000 units per year of a brought component which will be used in its main

Contd..