

Government College of Engineering, Amravati

(An Autonomous Institute of Government of Maharashtra)

Sixth Semester B. Tech. (Mechanical Engg)

Summer - 2017

Course Code: MEU605

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.
a)

Solve any 2Qs.

Principles of management can be violated in 6
Indian industries. Comment with suitable case
study of an automobile industry.

b)

Explain various types of market research 6
techniques for launching a four wheeler solar car.

c)

Explain most suitable advertising media for a 6
LED bulb manufacturer

2.

Solve any 2Qs.

6

a)

Draw the balance sheet of an Indian industry
listed in Bombay Stock Exchange with annual
turn over of Rs.1000/- crores and above.

6

b)

Explain various types of trainings to be imparted

 to executives working in software industry.
Explain seven basic quality control charts with suitable sketches

 3. **Solve any 2Qs.**

Discuss various types of sampling plans
Discuss zone of acceptance, rejection and indecision.

Explain methods of reducing scrap and waste in oil industry

 4. The number of customer complaints received daily by an organization is given below:

Day	Complaints
1	2
2	3
3	0
4	1
5	9
6	2
7	0
8	0
9	4
10	2
11	0
12	7
13	0
14	2
15	4

Does it mean that the number of complaints is under statistical control?

Establish a control scheme for the future.

 5.

A contractor has to supply 10000 paper cones per day to a textile unit. He finds that when he starts a production run, he can produce 25000 paper cones

6

6

6

12

per day. The cost of holding a paper cone in stock for one year is 2 paise and the set up cost of a production run is Rs.18. How frequently should production run be made?

Government College of Engineering, Amravati
B.Tech. Mechanical Engg 2015 MEU 605 Industrial Management & Quality Control
Test-T-1, Date: 4th Feb 2015 Max Time= 1 Hr. Max Marks= 15

Note : Solve any 3 Qs. All Qs. Carry equal marks

- Q.[1] Discuss violation of principles cannot be denied by multinational companies in India . Justify with a suitable case study
 - Q.[2] Explain the most appropriate market research strategy for a motor cycle manufacturer manufacturing a new 350 CC motor cycle in Indian automobile market
 - Q.[3] Discuss the new product development process with reference to most fuel efficient car made by BHU Varanasi students in this year
 - Q.[4] What are various types of wastes and scrap? As a technocrat suggest various waste utilization strategies and techniques with a case study
- +++++

MEU605 IMQC T-2 Date: 18th March 2017 Max Time : 1 Hr, Max Marks=15

27

Note: Solve any 3 Qs. All Qs carry equal marks

- Q.[1] Discuss importance of industrial safety and effects of neglecting industrial safety precautions
 - Q.[2] Discuss various classes of materials
 - Q.[3] Explain significance of human resources planning in relation to engineers selection
 - Q.[4] Explain purchasing methods & procedure for HSS tools to be utilized in precision manufacturing
- +++++

18]

Discuss significance of producer's risk and consumer's risk
Explanation zone of acceptance, rejection and indecisive with neat sketch

...summarise case study related to electric

6th Sem. B. Tech. MEU 605 IMQC
Self Study Test-III Max Marks=25 Date : 25th March 2017 16.00to17.00 Hrs Time : 1 hr
Solve any 3 Qs.

- Solve any 3 Qs.

 - [1] Explain Various types of control & attribute charts with suitable diagram [9]
 - [2] Discuss various types of sampling plans. [8]
 - [3] Discuss significance of producer's risk and consumer's risk [8]
 - [4] Explain zone of acceptance, rejection and indecision with neat sketch [8]

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1. Solve any 2 Qs.

a) Discuss principles of management with 6 suitable case study

b) Explain various types of market research 6

c) Explain product life cycle with neat sketch 6

2. Solve any 2 Qs.

a) Elaborate need of finance 6

b) Differentiate between waste and scrap 6

c) Explain human resources planning with 6

Contd.

suitable illustration

3. Solve any 2 Qs.

- a) Explain objectives of estimating & costing 6
- b) Discuss significance of ABC analysis in 6
 relation to HSS tools
- c) Explain various aspects of quality 6

**4. a) Explain significance of control & variable 6
charts**

- b) Discuss various types of sampling plans 6

**5. a) Explain zones of acceptance, rejection & 6
indecision**

- b) Discuss in brief about seven basic quality 6
control tools with neat sketch