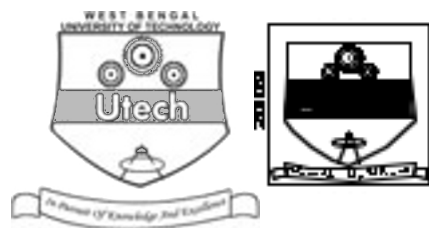


INDUSTRIAL MANAGEMENT (SEMESTER - 6)

CS/B.TECH(ECE (O+N))/SEM-6/HU-601/09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Roll No. of the
Candidate

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

CS/B.TECH(ECE (O+N))/SEM-6/HU-601/09
ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
INDUSTRIAL MANAGEMENT (SEMESTER - 6)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

	Group – A										Group – B					Group – C					Total Marks	Examiner's Signature
Question Number																						
Marks Obtained																						

.....
Head-Examiner/Co-Ordinator/Scrutineer

6784 (11/06)



DO NOT WRITE ON THIS PAGE



ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009

INDUSTRIAL MANAGEMENT

SEMESTER - 6



Time : 3 Hours]

[Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for the following : 10 × 1 = 10
- i) In torque measurement with strain gauge, the strain gauge is kept at
- a) 45 degree to the axis of the shaft
 - b) 60 degree to the axis of the shaft
 - c) 90 degree to the axis of the shaft
 - d) 30 degree to the axis of the shaft.
- ii) A D/P transmitter works on the principle of
- a) Free balance
 - b) Motion Balance
 - c) Both (a) & (b)
 - d) None of these.
- iii) For measuring current an ammeter reads 10 amps. actual reading should be 15 amps. The error in the measurement is
- a) 5A
 - b) – 5A
 - c) 12A
 - d) –12A.
- iv) A D/P transmitter can be used to measure
- a) flow
 - b) pressure
 - c) level
 - d) all of these.
- v) A 4 gm mass is suspended from a spring. The deflection is 10 nm. The natural frequency of the system is
- a) 1.4 Hz
 - b) 44 Hz
 - c) 4.4 Hz
 - d) None of these.



vi) In the Commercial Weighing system "Steel yard" works on the principle of

a) Class I Lever

b) Class II Lever

c) Class III Lever

d) None of these.



vii) A toothed type tachogenerator has 120 teeth. The speed of the shaft on which the disc is mounted is 1500 rpm. The no. of pulse will be available

a) 3000

b) 1500

c) 2000

d) 1000.

viii) The measurement of resistance of a resistor is given the following results :

101.2, 101.7, 101.3, 101.0, 101.5, 101.3, 101.2, 101.3, 101.4, 101.1 ohms. The arithmetic mean of the error is

a) 101.30

b) 101.2

c) 101.5

d) None of these.

ix) A voltmeter of range 0 –10V has guaranteed accuracy of 2% for full-scale reading. What is the percentage of the limiting error, when this meter reading is 5V ?

a) 6%

b) 1%

c) 5%

d) 10%.

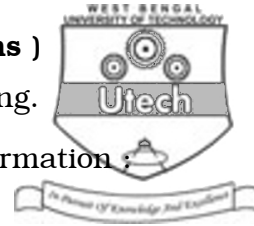
x) Pneumatic relay is used to

a) increase the pneumatic signal

b) increase the time lag

c) reduce the noise

d) reduce the time lag and increase the signal output.

**GROUP – B****(Short Answer Type Questions)**Answer any *three* of the following. $3 \times 5 = 15$

2. Determine Fixed Cost and Profit from the following information :

P/v ratio = 50%

Sales Value = Rs. 10,00,000

Margin of Safety = Rs. 4,00,000

3. Distinguish between Marketing and Selling.
4. Define TQM. What are its essential elements ?
5. Classify the different levels of Management. Give example.
6. 'Training is a part of Development.' — Discuss.

GROUP – C**(Long Answer Type Questions)**Answer any *three* questions. $3 \times 15 = 45$

7. What do you mean by SQC ? Write short notes on Control charts.

'Determine the control limits for R-Chart from the following data and draw the control charts :

Sample No.	Value of Sample items inspected			
	X_1	X_2	X_3	X_4
1	15.58	18.82	15.45	15.71
2	15.94	15.07	15.02	15.81
3	15.63	15.67	15.60	15.54
4	15.17	15.08	14.81	15.02
5	15.18	15.40	15.34	15.36


[Conversion factors for a sample of size $n = 4$ are given $D3 = 0$ and $D4 = 2.282$]

 $4 + 4 + 7$

8. Define Leadership. What are the characteristics of Leadership ? Discuss the importance of Leadership. Explain concept of Managerial Grid with diagram.

 $3 + 3 + 4 + 5$



9. Discuss the steps in Planning processes. What are the limitations of Planning ? 8 + 7
10. What is 'Human Resource Management' ? Discuss the importance and scope of 'Human Resource Management'. Distinguish between HRM & Personnel Management.  2 + 6 + 7
11. Define Trade Union. Discuss the functions of Trade Union. Give the reasons for failure of TU movement. 2 + 8 + 5
12. Write short notes on any *three* of the following : 3 × 5
- a) Maslow's theory of Motivation
 - b) Delegation of Authority
 - c) Controlling
 - d) Objectives of Financial Management.

END