	Utech
Name :	
Roll No.:	To Demonstrate and Explored
Invigilator's Signature :	

CS/B.TECH(CSE, IT, EE, EEE, ICE, CT)/SEM-8/HU-802/2012 2012

INDUSTRIAL MANAGEMENT

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Multiple Choice Type Questions)

1.	Choose the correct	alternatives	for any te	en of the	following :
					$10 \times 1 = 10$

- i) The number of members required for registration of a Trade Union is
 - a) 5

b) 7

c) 10

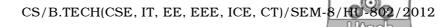
- d) 12.
- ii) Who proposed Hygiene theory of Motivation?
 - a) Abraham Maslow
- b) Philip Koteler
- c) Herzberg
- d) Douglas McGregor.
- iii) What is the concept that holds that consumer will prefer products that are widely available and inexpensive called?
 - a) Production concept
- b) Product concept
- c) Marketing concept
- d) Selling concept.

- iv) Planning is
 - a) Looking ahead
 - b) Looking back
 - c) Guiding people
 - d) Delegation of authority.

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v)		_	nent	is the basic of all other	
	func	ctions?		Staffing Annual (Yearning and Explored)	
	a)	Controlling	b)	Staffing	
	c)	Planning	d)	Directing.	
vi)	FSN	Analysis is required to	conti	rol	
	a)	Quality of Product	b)	Inventory	
	c)	Industrial Dispute	d)	All of these.	
vii)	Con	trol chart for variable is			
	a)	p-chart	b)	R-chart	
	c)	C-chart	d)	none of these.	
viii)	If th	ne order quantity is in	creas	sed, the annual cost of	
	carr	ying inventory			
	a)	Increases	b)	Remains the same	
	c)	Decreases	d)	Not affected.	
ix)	A s	ix sigma process ensi	ıres	not more than	
	defe	cts per million opportur	iities	•	
	a)	2700	b)	4.3	
	c)	3.4	d)	99.73.	
x)	The	basis for 'ABC' Analysis	is		
	a)	Interests of Materials N	/Iana	ger	
	b)	Interests of Top Manag	gemer	ıt	
	c)	Parelo's 80-20 Rule			
	d)	None of these.			
xi)	Luth	ner Gulick states sever	n fur	nctions of management	
	und	er the catchword			
	a)	PSCORBOD	b)	PDOSCORB	
	c)	PODSCORB	d)	DOPSCORB.	
xii)	Qua	lity control is			
	a)	Carrot and stick appro	ach t	o motivation	
	b)	concerned with	achie	ving maximum user	
		satisfaction at minimu	m co	st	
	c) the name of the department which devotes its				
		full time to Market Res	earcl	n.	
	d)	Collective Bargaining.			



GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. Explain the difference between production and productivity. What are the different methods of increasing productivity?
- 3. Briefly describe the determination of project duration using CPM and PERT.
- 4. Distinguish between Marketing and Selling.
- 5. From the following particulars, calculate Economic Order Quantity, number of order placed during the year and the gap between orders:
 - Monthly consumption 15,000 units, Carrying cost 20% on Cost of product, Cost of product is Rs. 100 per unit and Cost per order is Rs. 2000.
- 6. Give an account of the theory of Hierarchy of needs as proposed by Abraham Maslow.

GROUP – C (Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) Plot X and R-chart and comment on the control status from the following data :

Individual measurement of dia (mm)

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Sample No.	1	2	3	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

Quantity control constants are $A_2 = 0.5768$, $D_3 = 0$ and $D_4 = 2.114$.

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b) 10 samples, each of size 100, of a pipe were inspected in pressure testing. The result of the inspection are given below:

The number of defects in the samples are 4, 0, 5, 3, 6, 2, 5, 0, 3 and 2 respectively. Draw an appropriate control chart and comment whether the process is under control or not. 9+6

- 8. What do you understand by 'Total Quality Management'? Discuss the idea of 'Quality Circle'. 7 + 8
- 9. Write notes on any *three* of the following : 3×5
 - a) Product and Process layout
 - b) Plant location
 - c) Materials Handling
 - d) Demand Forecasting
 - e) Selective Inventory Control
 - f) Types of Production
 - g) Sin Sigma in Quality.
- 10. Write notes on any *three* of the following :

 3×5

- a) SWOT analysis
- b) Management by objectives
- c) Parameters of Marketing Mix
- d) Benefits of Performance Appraisal
- e) Break-even Analysis
- f) Methods in 'Maintenance'
- g) Performance Appraisal
- 11. a) Elucidate the steps in 'Production Planning and Control'.
 - b) Describe the steps in 'Method Study' and elaborate on 'Stop Watch Time Study' for determination of Standard Time. 7 + (4 + 4)

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