

# ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009 **INDUSTRIAL MANAGEMENT SEMESTER - 6**

Time: 3 Hours]		[ Fu	ıll Marks :	<b>7</b> 0

		( Multiple Cl	noice Type g	uestions)	
Cho	ose tl	he correct alternatives for	the following	:	$10 \times 1 = 10$
i)	In t	orque measurement with	strain gauge,	the strain gauge is kep	ot at
	a)	45 degree to the axis of	the shaft		
	<b>b</b> )	60 degree to the axis of	the shaft	M	
	c)	90 degree to the axis of	the shaft	0	
	d)	30 degree to the axis of	the shaft.		
ii)	ΑĽ	D/P transmitter works on t	he principle	of	
*.	a)	Free balance	<b>b</b> )	Motion Balance	
	c)	Both (a) & (b)	d)	None of these.	
iii)	For	measuring current an a	mmeter read	s 10 amps. actual rea	ading should be
	15	amps. The error in the me	asurement is		
	a)	<b>5A</b>	<b>b</b> )	- 5A	
	c)	12A	<b>d</b> )	-12A.	
iv)	A D	)/P transmitter can be use	d to measure		
	a)	flow	b)	pressure	
	c)	level	d)	all of these.	
v)	A·4	gm mass is suspended fi	rom a spring	. The deflection is 10	nm. The natural
	frec	quency of the system is	•		
	a)	1.4 Hz	<b>b</b> )	44 Hz.	
	c)	4.4 Hz	d)	None of these.	
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V1)	111 (1	ie Commerciai weigh	nig system	Sieer	yard work	s on the pri	ncipie q	il.
	a)	Class I Lever		<b>b</b> )	Class II L	ever		
	c)	Class III Lever		d)	None of th	nese.		
vii)	A to	othed type tachogene	erator has	120 te	eth. The s	peed of the	shaft o	n which
	the o	disc is mounted is 15	00 rpm. Tl	ne no.	of pulse wil	l be availab	le	
	a)	3000		<b>b</b> )	1500			
	c)	2000		d)	1000.			
viii)	The	measurement of resis	stance of a	resisto	or is given t	he following	results	:
	101.	2, 101.7, 101.3,	101.0,	101.5	101.3,	101.2,	101.3,	101.4,
	101.	l ohms. The arithme	tic mean o	f the er	ror is			
	a)	101.30		b)	101.2			
	<b>c</b> )	101.5		d)	None of th	iese.		
ix)	A vo	oltmeter of range 0	-10V has	guara	inteed acci	racy of 29	6 for fu	ıll-scale
	read is 5	ing. What is the per V?	centage of	the lir	niting erro	r, when this	s meter	reading
	a)	6%		b)	1%			
	c)	5%	No	d)	10%.			
x)	Pne	ımatic relay is used t	0		•		•	
	a)	increase the pneum	atic signal					
-	<b>b</b> )	increase the time la	g					
	c) ,	reduce the noise		•				
	d)	reduce the time lag	and increa	se the	eignal outn	art		<u></u>

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## GROUP - B ( Short Answer Type Questions )

Answer any three of the following.

 $3 \times 5 = 15$ 

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?
- Classify the different levels of Management. Give example.
- Training is a part of Development.' Discuss.

### GROUP - C

## (Long Answer Type Questions)

Answer any three questions.

 $3 \times 15 = 45$ 

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	Value of Sample items inspected					
No.	<b>X</b> <sub>1</sub> ·	. X <sub>2</sub>	X <sub>3</sub>	. X <sub>4</sub>		
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

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- 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

- 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:

 $3 \times 5$ 

- a) Maslow's theory of Motivation
- b) Delegation of Authority
- c) Controlling
- d) Objectives of Financial Management.

END

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