



No. Of Printed Pages: 2

Sardar Patel University S.Y. B.Sc. Industrial Chemistry Vocational, US04CICV02 - Semester 4 Industrial Instrumentation and Process Control 9th April 2016

11me: 10:30	am to 01:30 p	om			Total Marks: 7
Q1. Answer the foll					[10]
1. In centigrade					
			point d. Ste	am point	
2. The Reaumu					
			d.Petr		
	-		ahrenheit absolu		
a. Reaumur		inkine		d. Kelvin	
4. Which of the	_	-			
a. atm		c. Micron	d. None of the	e above	
3. 1 Pascal=					
a. 3.14			d. 2		
6. Mercury is		-			
a. 7	b. 100	c. 41	d. 14		
7. Theoretical	velocity of pito	ot tube is	· · · · · · · · · · · · · · · · · · ·		
a. v2gh	b. 2gh	c. 3gh	d. 4gh		
Onlice meter Differential	r work on the p	principle of		d. None of these	
9 A device use	area D. Ad ad for increasi	noss the area no the strengti	of the signal is	g. None of these	<u>;</u>
a. Amplifier	b. Radio	c. Transmit	ter d. No	ne of them	
	ent which ind	icates result a	s numeric value	is .	
	b. Analog		d. nor		
Q-2 Answer the fo	llowina: (Ans	(Ten)			[20]
Define precision.		, , , , , ,			[20]
2. List the various to		alec			
Explain direct an	•		e		
4. Write down the p		4			
5. Define: Repeatal		•	gauge.		
6. Give the names		•	aa jaatuumaata		
			_		
7. Explain in detail (,	-	ous.	
8. Explain dip stick			surement.		
9. Define: i) Decay			_		
10. Write down the			e		
11. Define: i) Overs	inoot. II) Pro	ocess			

12. Write down the advantages of Automatic control system.

Q - 3 (a) Explain in detail classification of instruments based on functions	
and working	[10]
OR	
 Q - 3 (a) Discuss Mercury in glass thermometer in detail. (b) Explain in detail construction and working of bimetailic thermometer. 	[05] [05]
Q - 4 (a) Explain in detail importance of level measurement in chemical industries (b) With neat sketch explain float methods for liquid	s [05]
level measurement	[05]
OR	,
Q - 4 With neat sketch give construction and working of bourdon tube	[10]
Q - 5 Write principle, construction, working, advantages and disadvantages of orifice meter.	[10]
OR	
Q - 5(a) Explain working of Rota-meter.	[05]
(b) Give the importance of fluid flow measurement.	[05]
Q - 6 Explain controlling of batch and continuous process.	[10]
OR	
Q - 6 With neat diagram explain in detail the flow diagram of automatic	[10]

