		SEAT No	
[14/A-11]	≰ų	Sardar	Pē

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Sardar Patel University

B. Sc. (Semester – IV) Examination 17-04-2018, Tuesday. TIME: 10:00 TO 12:00

Industrial Chemistry & Industrial Chemistry Vocational COURSE NO: USO4ECHEO6 (Instrumental Methods Of Analysis.)

Note	COURSE NO: USO4ECHE06 (Instrures: Figures to the right indicate full marks.	Total marks: 70
	swer the following Multiple Choice Question	ns. (Al) are compulsory) (10)
4	According to phras law strength surrent	(i) flowing through of current is proportiona
J.c	to	
	A. Voltage	C. Potential different
	B. Resistance	D. None of these
• ,	Which of the following electrode gives no s	alt error?
354.4	A. Quin hydrone electrode	C. Glass electrode
	B. Hydrogen electrode	D. Antimony electrode
3.	Which of the following electrode is not affe	
٠.	A. Glass electrode	C. Lig-lig electrode
	B. Hydrogen electrode	D. Quinhydrone electrode.
4.	If solid stationary phase & liquid mobile ph	ase is used in the chromatography.then.the
•	method is known as	
	A. Column	C. HPLC
	B. Thin layer	D. All of above.
5.	The porous medium without any movemen	nt through which mixture move is called
	A. Moving phase	C. Both 1 & 2
	B. Stationary phase	D. None of above
6.	R _M , R _F , R _X are called	
	A. Migration parameters	C. Both 1 & 2
	B. Travelling agent	D. None of these.
7.	A support where porous particle are coate	d onto an inert solid core such as a glass beac
	of about 40 µm in diameter is called	
	A. Sellicular	C. Pellicular
	B. Mellicular	D. None
8.	The type of mobile phase used in HPLC sep	paration is depend
	A. Type of separation component	C. Both 1 & 2
	B. Type of stationary phase	D. None
9.	. Due to hydrogen bonding in Ultra violet al	
	A. Higher	C. No effect
	B. Shorter	D. None of these
16	0. Which instrument is used for large wavele	ength Region?
	A. Colorimeter	C. Spectrophotometer
	B. Photometer	D. None of these.

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	-	questions (Any TEN)		(20)	
_	term Specific Con	ouctance. age & disadvantage of hyd	ranan alaserada		
	term Equivalent C		i ogen electioder		
	•	ing column efficiency.		•	
•		s for identification of com	nound.		
i i	imitations and sco			,	
		gas chromatography.			
	on the carrier gas			·	
9. Write t	he principal of HPI	LC technique,			
10. List out	the advantage s o	f double beam instrument		·	
	aracteristic band o	$f \mapsto x^*$ in the pyridine ger	nerally <mark>disappears</mark>	in acidic solution,	
Why? 12 Satural	ead hudrockthone	can serve as the best solve	est for ou magnetic	urnante	
	ted nythocarbons t	ren sente es en hestsone	me for uv incasure	sistento.	
	stes on following:			(10)	
	en electrode and i				
B. Quinhy	dregne electrode.				
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Q.3 Discuss the	-	Name and the second of the sec	مساسئت و بردید	(10)	
		neasurement with Wheat: led out with Potential mea		•	
ט, אניש־טי	ase detailorris call	ICA ORE MIEE COECHISSI HICE	isal chients.		
Q.4 Write a de	itail note on "PAPE	R CHROMATOGRAPHY".		(10)	
				(20)	
	!	O R		, , (20)	
Q.4 Write a no	ote on "COLUMN C			(10)	
	* !	OR HROMATOGRAPHY".		(10)	
	* !	OR HROMATOGRAPHY". of GC and experim the ma	in parts of it.	` '	
Q.5 Draw the	schematic diagram	OR HROMATOGRAPHY".	in parts of it.	(10) (10)	
Q.5 Draw the s	schematic diagram otes on following:	OR HROMATOGRACHY*. I of GC and experin the ma	In parts of it.	(10)	
Q.5 Draw the s Q.5 Write a no A. Flame	schematic diagram otes on following: lonization Detecto	OR HROMATOGRAPHY", of GC and experin the ma DR r (FID)	in parts of it.	(10) (10)	
Q.5 Draw the s Q.5 Write a no A. Flame	schematic diagram otes on following:	OR HROMATOGRAPHY", of GC and experin the ma DR r (FID)	in parts of it.	(10) (10)	
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