144	L	L No):						T	otal nun	nber o	f page	s:[2
					1	-		-	Total nu				
					В.Т	ech. (CHE	6th S	em				
					M	ass T	`rans	fer-I	I	(RG)	\		
					Subje	et Coo	le: BT	СН-6	01A	(100	,		
				Pa	per ID	: W/1	8	for off	ice use	1			
							1,2105	batu	_				
			wed: 3 l							N	Иах М	arks:	60
ımp			Instruc	are cor	npulso	rv							
				missing									
		2004		0		ART A	(2mark	s x 10)					
Q. 1.	((a) V cond b) S	What is ition and how the	d optimu feed lin	y exterum reflu ne on x-	y diagrar		rious po				um rei	flux
	() () () () () () () () ()	d) D e) W f) W g) S h) D i) D es, r	What are That is maketch the effine the effine the hame it.	various neant by e various avy key	elative types of a hyper s types and lig miscella	volatility f nucleat rsorber? of equili ht key co and ma	ion? brium re omponer rc. Are t	epresentants.	ations fo	r extrac	tion.		y? If
	() () () () () () () ()	d) D e) W f) W g) S h) D i) D es, r	What are that is maketch the effine the that is added to the theta is added to the the that is added to the theta is added to the the theta is added to the the theta is added to the theta is adde	ne term revarious neant by e various eavy key e terms re	elative types o a hyper s types and lig miscella hysterisi	volatility f nucleat rsorber? of equili ht key co and ma s? PART B	. What is ion? brium recomponer rc. Are to (8mark)	epresentants. These ter	ations fo	or extrac	tion.	ndustr	
. 2.	(() () () () () () () () () () () () ()	d) D e) W f) W g) S h) D i) D es, r i) W ,000 rodu f 2 t i a sa	hat are hat is maketch the effine the hame it. hat is added to the hame it. hat is added to the hame the hame the hame the hame the hames the hame	te term revarious neant by e various	elative types of a hyper s types and lig miscella hysterisi In-hept ning 90 um is us find the	volatility f nucleat rsorber? of equili ht key co and ma	. What is ion? brium recomponents. Are to the container and relative moreflux.	epresentants. These ter other 90 volatility voratio, n	is to be s	separate ane. A r	d into	two ratio feed	со
. 2.	() (i) (i) (ii) (ii) (ii) (ii) (iii)	d) D e) W f) W g) S h) D i) D es, r i) W ,000 rodu f 2 to a sa nd th	hat are that is maketch the effine the effine the effine the effine it. hat is added to the effine the name it. hat is added to the effine the effine the effine the effine the effine the efficient t	re term revarious neant by e various avy key e terms resorption lessorption les	elative types of a hyper s types and lig miscella hysterisi In-hept ning 90 um is us find the eal stage of aceto npute th	rolatility f nucleat rsorber? of equili ht key co and ma s? PART B ane in n- n-hept sed. The minimu	What is ion? brium recomponents. Are to the second relative more fluored and relative more fluored and is column. OR	epresentants. These ter as x 5) mixture other 90 volatility ratio, m	is to be solve is about inimum	separate ane. A r	d into eflux rad the r of sta	two ratio feed ages	CO CO
	() (i) (i) (ii) (ii) (ii) (ii) (iii)	d) D e) W f) W g) S h) D i) D es, r i) W ,000 rodu f 2 to a sa nd th	hat are that is maketch the effine the effine the effine the effine it. hat is added to the effine the name it. hat is added to the effine the effine the effine the effine the effine the efficient t	re term revarious neant by evarious avy key e terms resorption lessorption les	elative types of a hyper s types and lig miscella hysterisi In-hept ning 90 um is us find the eal stage of aceto npute th	rolatility f nucleat rsorber? of equili ht key co and ma s? PART B ane in n- n-hept sed. The minimu es in the	What is ion? brium recomponents. Are to the second relative more fluored and relative more fluored and is column. OR	epresentants. These ter as x 5) mixture other 90 volatility ratio, m	is to be solve is about inimum	separate ane. A r	d into eflux rad the r of sta	two ratio feed ages	y? If

stages II	1300 K	minimum l g/hr kerosei	ne is used.	The equilib	ind the nu prium data	imber of t	heoretic
x' nicotine/ water	0	0.001011	0.00246	0.00502	0.00751	0.00998	0.0204
y' nicotine/ kerosene	0	0.000807	0.001961	0.00456	0.00686	0.00913	0.0018
peration g	srapini	cally. If the inimum an	nount of a	n follows F dsorbent i	reundlich	ons. Representation, constage cross	toriva the
condition operation. Sodium succession with the condition of the conditio	for m Iphate sodint losse	carry. If the	equilibrium nount of a e to be pro- e) at 104° mother liques and quanti	n follows Formation disorbent in the second of the secondaries of the	n a two son a batch of blution is 18.3 wto er liquor if	equation, of stage cross of 8600 kg cooled with there are to	s curren solution ith 4.5%
condition peration. Sodium sure 29.6 wt% evaporation. Estimate the vater of hy	for male soding losses the vertical multiple soding the vertical solutions.	inimum and crystals are um sulphates such that d of crystals on per mole arious equiti stage course	equilibrium nount of a ce to be produce) at 104° mother liques and quantities sodium sullibriums po	n follows he dsorbent in the duced from C. The souor contain the phate in the stible in lessible in le	n a batch of a batch of a batch is 18.3 wto er liquor if the crystals.	equation, of stage cross of 8600 kg cooled with sodium states are to	s curren solution ith 4.5% sulphate.
condition peration. Sodium sure 29.6 wt% evaporation. Estimate the vater of hy Describe () Represented the contract of the c	for malliphate sodi ne yield dratic the vert multion	inimum and crystals are um sulphates such that d of crystals on per mole arious equiti stage course	equilibrium nount of a ce to be producte) at 104° mother liquanti sodium sullibriums ponter current	of follows Fol	reundlich n a two s n a batch of olution is ns 18.3 wto er liquor if he crystals. eaching.	equation, of stage cross of 8600 kg cooled with there are to agram and	s curren solution ith 4.5% sulphate. en moles

OR

b) Derive Rayleigh equation for differential distillation.

reflux condition.

a) Using H-x-y diagram, explain the construction for minimum reflux and total CO1,

CO2