24/08/2021		Name: Ayush Jain SAPID: 60004200132 Branch: Computer Engineering DTV: J1
2410812021	Term. Test 2	
	Engineering Chemistry 2	
	0.5	
→ (·)	Criver:	
	D = 3.2×10 sec-1	
	We know that,	
*	Energy, E: h?	73
	337	
	E = 6.624×10 ×3.2×10	
	= 21 - 197 ×10 -24 J	
	21. (11.410]	
4	, -23 T	
	E = 2.1197 ×10-23 J	
E ₁ , bi	We also know that,	
	D = C	
	v = c	
	· d - Lagueler	ملاء
	i. d = c where d = wavelen	
	C= speed o	of light
	:. d= 3x108 = 0.9375 x10 m	
	3.2 ×10-10	
	: A= 9375 & um = 9.375 ×166	m
	. The smallest amount of energy	I emmitted or absorbed
	at given frequency is 2.1197 x10	2 1
	The wavelength of given radiation	16 9.875 x10 nm
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	The green principle involved in the above process is	
	use of renemable feedstack law materials and feedstack	
	should be renearable rather than depleting whenever	
	technically and economically practicable.	
Q. 3>		
$\rightarrow_{(i)}$	CH3-CH=CH2 + CH2 - CH2-CH= CH2 + HCI	
	MW = 42 MW = 76.5	
	: 1. Atom Economy = MW of product x160	
	Total MW of reactant	
	= 76.5 × 160	
	42+71	
	= 76.5 × 160	
•	113	
	= 67.69 1.	
	- 61.61 '	
	: 1. Atom Economy = 67.69 1.	
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(;;)	Applications of supercritical co2 arc:
	i) Supercritical cos is useful for the decaffeiration of
	coffee. The process is economic and environmentally
	sustainable.
	ii) By using supercritical carbon dioxide, seperation of
	the reaction components from the starting material is much
	simpler than with traditional organic solvents.
	(iii) Supercritical co2 can be used as more environmentally
	friendly colvent for dry cleaning over traditional solvents
	such as hydrocarbons.
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