

No	Question	Name	Matrix	substance		Temperature, T [°C]	Pressure, P [kPa]	Mass, m [kg]	Volume, v [m ³]	Specific volume, v [m ³ /kg]	Specific internal energy, u [kJ/kg]	Specific enthalpy, h [kJ/kg]	Specific entropy, s [kJ/kg·K]	quality, x [-]	phase description [-]	Note [-]
				water, H ₂ O	refrigerant-134a											
Example	3-127	Lecturer	-	x		120.21	200	-	240	0.66460	2023.0	2155.91	6.8755	0.75	Saturated liquid-vapor mixture	25% mass is liquid, 75% mass is vapor
1	3-21(a)	AFIQAH BINTI AHMAD RADHI	221110869	x		140		-	-	0.035						-
2	3-21(b)	AGHILAN A/L PATHMASRITHARAN	221112901	x			550	-	-						Saturated liquid	-
3	3-21(c)	AHMAD DANIEL BIN MOHD ZAIBIDI	221112902	x		125	750	-	-							-
4	3-21(d)	AHMAD HAIQAL BIN FAKARUDDIN	221110870	x		300		-	-	0.140						-
5	3-22(a)	AHMAD RIFQI BIN ZAHARI	221110872	x			200	-	-					0.70		-
6	3-22(b)	AINI DIANA BINTI ABD RANI	221110874	x		140		-	-			1800.0				-
7	3-22(c)	ANIS BINTI YUNUS	221110875	x			950	-	-					0.00		-
8	3-22(d)	ARUL ANAND RAJ A/L ANTHONY RAJ	221110876	x		80	500	-	-							-
9	3-22(e)	BAVITHIRAN A/L MUTTHUKKUMARAN	221112904	x			800	-	-			3162.2				-
10	3-23(a)	CHAN ZI WEI	221110877		x		600	-	-							-
11	3-23(b)	CHANG CHUN SIANG	221110878		x	-10		-	-			180.00				-
12	3-23(c)	EMMIR NOOR HANIFF HAIQAL BIN AHMAD YUSRIMAN ARIEF	221110884		x	-14	500	-	-					0.60		-
13	3-23(d)	EUNICE VELLA ANAK SOW	221110885		x		1200	-	-			300.63				-
14	3-23(e)	FOO YONG YI	221110886		x	44		-	-					1.00		-
15	3-24(a)	FRANKIE KHOR	221110887		x	20		-	-			95.00				-
16	3-24(b)	GOH YONG HAN	221110888		x	-12		-	-						Saturated liquid	-
17	3-24(c)	HAFIY AHMAD FADHLI BIN HAN	221110889		x		400	-	-			300.00				-
18	3-24(d)	INDARPRASATH A/L PRABAGAR	221110892		x	8	600	-	-							-
19	3-26	INSYIRAH NURWAHIDAH BINTI IBRAHIM	221110893		x	-10	90.4	0.85	-							-
20	3-26	KHOO TENG XIAN	221110894		x	15	90.4	0.85	-							-
21	3-27	KIRTHIKA A/P SIVAN	221110895		x	-30		10.00	1.12							-
22	3-27	LEE SAI TATT	221110898		x		200	10.00	1.12							-
23	3-28	LIM KAH WEI	221110899	x		200	50	-	-							-
24	3-29	MUHAMMAD AIMAN ASYRAF BIN AZIZI	221112909	x		100	5000	-	-							-
25	3-30	MUHAMMAD ALIF BIN ISAM	221110908		x	20	700	-	-							-
26	3-31	MUHAMMAD ANIQ ALIMI BIN AZHAR	221110910		x	25	200	-	-							-
27	3-32	MUHAMMAD AQIL BIN SHAFIEE	221112910		x	-26.4		1.00	0.14							-
28	3-32	MUHAMMAD PUTRA ADAM BIN ABDUL ZAHID ESWANDI	221110916		x	100		1.00	0.14							-
29	3-33	MUHAMMAD SHAMIL NUL IKHMAL BIN SAMSURI	221110919	x			200	1.00	1.1989							-
30	3-33	MUHAMMAD YUSRON AFANDI BIN FAHRUDIN	221110920	x		3		1.00	3.5967							-
31	3-37	NABIL FAIZUDDIN BIN ABDUL QAYYUM	221112917		x		300	10.00	0.014							-
32	3-38	NG JIAN YU	221112918		x		200	100.00	12.322							-
33	3-38	NUR FARHANA BINTI MOHD FAHMI	221110928		x		200	100.00	6.161							-
34	3-45	NUR FATIN ALLYSA BINTI MUHAMAD SHAMSANI	221112919	x		90		40.00	1.80							-
35	3-45	NUR HIDAYAH RAZALI	221112920	x				40.00	1.80						Saturated vapor	-
36	3-48	NUR ROZA RAFAEZNI BINTI MOHAMED ZAHIRAN	221110929		x		400	-	0.14							20% volume is saturated liquid
37	3-49	NUR SYAKIRA BINTI MUHAMAD RAZALI	221110930	x		250	1400	-	-						Superheated vapor	-
38	3-49	NUR ZAWANAH BINTI MOHAMMED ZULKHIFLI	221110932	x		120		-	-	0.16356						-
39	3-51	NURHAZIQA BINTI ZULKIFLI	221112921	x			2000	1.00	0.15							-
40	3-51	NURUL NABILA NATASHA BINTI AYAZI	221110935	x		40		1.00	0.15							-
41	3-52	ROSHAN A/L BRAKALATHAN	221110940		x		200	10.00	0.70							-
42	3-52	SAM JIA ROU	221110942		x		30	200	10.00	-						-
43	3-53	SHAMINI A/P KUNASEGARAN	221110943	x		300	500	0.60	-							-
44	3-53	SHANGKARAN A/L KANALPEN	221110944	x			500	0.60	-					0.50		-
45	3-54	SHUVAN RAJ A/L G.MURUGAN	221110946	x		200		1.40	-						Saturated liquid	-
46	3-54	SIN SOO WEI JIE	221110947	x				1.40	0.006476						Saturated vapor	-
47	3-55	SITI NURUL FATIN BINTI ABD JALIL	221110950	x			126.15	-	-						Saturated liquid	-
48	3-56	TAN CHUN TATT	221110953	x		200		1.40	-						Saturated liquid	-
49	3-56	TEH KE ZHENG	221110956	x				-	-	0.004626					Saturated vapor	-
50	3-58	TENGGU FARISA SANI BINTI TENGGU ABDULLAH SANI	221110957	x		400	4000	0.50	-							-
51	3-58	TERRENCE LEO A/L DANIEL	221112925	x			2326	-	-	0.03672						-
52	3-59	THIVYA A/P SUGUMARAN	221112926	x			3500	-	-						Superheated vapor	superheated by 5 °C
53	3-59	VIKRRAM A/L KUMAR	221110958	x			3500	-	-						Saturated liquid	-
54	3-59	WOO SWEE HIN	221110961	x		200		-	-	0.001235						-
55	3-100(a)	YEOH KAI JIE	221110962	x		30	200	-	-							-
56	3-100(b)	GITHAN A/L BRABAGARAN	221112907	x		130	270.3	-	-							-
57	3-100(c)	CHRIS THEOPHILUS ANAK ENGGU	221110881	x		400		-	-	1.5493						-
58	3-100(d)	MUHAMMAD SHAMIL NUL IKHMAL BIN SAMSURI	221110919	x			300	-	-	0.500						-
59	3-100(e)	MUHAMMAD ANIQ ALIMI BIN AZHAR	221110910	x			500	-	-			3084				-
60	3-101(a)	NURUL HIKMAH BINTI MOHD NASIR	221111995		x	-12	320	-	-							-
61	3-101(b)	IMAN HAKIMI BIN ZAINAL ABDIN	221110891		x	39.37	1000	-	-							-
62	3-101(c)	MUHAMMAD LUKMAN YUSUF BIN MOHD YUASA	221112912		x	40		-	-	1.17794						-
63	3-101(d)	MUHAMMAD AFIQ FIRDAUS BIN AMRAN	221110905		x		180	-	-	0.0700						-
64	3-101(e)	NAZRUL FITRI BIN MOHAMAD NAZIR	221110922		x		200	-	-			249				-

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				water, H ₂ O	refrigerant-134a											
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65	3-108	GHOKULA SRE GANESH A/L SANDER	221110967		x	-40		1.00	0.090							-
66	3-108	MUHAMMAD LUQMAN BIN INDERA	221110914		x		280	1.00	0.090							-
67	3-109	MUHAMMAD REDZA FAHMI BIN ROSLI	221110917		x		240	1.00	0.117							-
68	3-109	MUHAMMAD SYAFIQ BIN MOHD HANIF	221112913		x			1.00	0.117						Saturated vapor	-
69	3-110	VINCENT JANGGANG ANAK PHILIP	221110959	x		250	300	-	-							-
70	3-110			x			150	-	-	0.7964						-
71	3-112				x	70	1200	10.00	-							-
72	3-112				x	20		10.00	-						Compressed liquid	-
73	3-114			x		300	200	0.20	-							-
74	3-114			x		150	200	-	-							-
75	3-115				x		900	-	0.03						Saturated liquid	-
76	3-115				x	20	280	-	-							-
77	3-120			x			300	-	-	0.50						-
78	3-120			x			300	-	-					1.00		-
79	3-120			x			600	-	-	0.6058						-
80	3-122			x		400		-	-	0.02						-
81	3-125			x		160		10	1							-
82	3-126			x		500	2000	-	3							-