

Fractional distillation of crude oil

Q1. (2018)

A)

01.1	condenses		1	AO1 5.7.1.2
------	-----------	--	---	----------------

B)

01.2	the fractions have different boiling points		1	AO1 5.7.1.2 5.7.1.3
------	---	--	---	---------------------------

Q2. (2020)

05.2	crude oil heated		1	AO1 5.7.1.2
	(hydrocarbons / liquids) evaporate	allow (hydrocarbons / liquids) vaporise / boil	1	
	vapours / gases condense		1	
	fractions have different boiling points or fractions collect at different levels depending upon boiling point		1	

Q3. (2023)

03.2	(crude oil) is heated to vaporise (the hydrocarbons)	allow (crude oil) is heated to evaporate the hydrocarbons	1	AO1 5.7.1.2
	temperature (of column) decreases from bottom to top	allow the column gets cooler going up	1	
	(so) the fractions / hydrocarbons condense at different heights (in the column)		1	
	(because) the fractions / hydrocarbons have different boiling points		1	

Q4. (2024)

01.3	(crude oil) is heated		1	AO1 5.7.1.2
	(so some of the hydrocarbons) vaporise		1	
	the column has a temperature gradient	allow the column gets cooler going up	1	
	(so) the hydrocarbons / fractions condense at different heights / temperatures in the column or (and) the hydrocarbons / fractions condense at their boiling points		1	