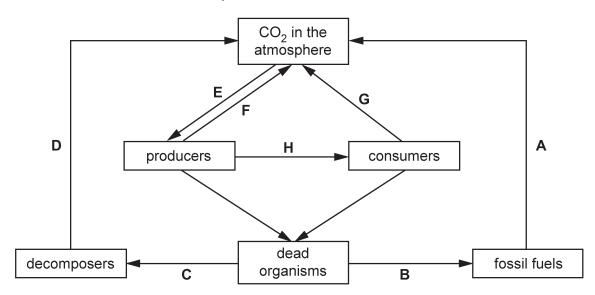
20 Carbon and nitrogen are elements that are recycled.

The flow chart shows the carbon cycle.



` '	` '		, ,		,		
						_	
		Α		 		- 1-	

Identify the processes occurring at **A** and **F**.

(ii)	The concentration	of carbon	dioxide	(CO ₂) i	n the	atmosphere	varies	depending	on	the
	time of year.			_						

Suggest why the concentration	of CO ₂ in t	the atmosphere	increases	during t	he	winte
months and decreases during the	e summer r	nonths.				

	[41]

- **(b)** In plants the glucose produced by photosynthesis is changed into starch for storage. Glucose and starch are both carbohydrates.
 - (i) Complete the table below to show the main differences in structure between glucose and starch.

Glucose	Starch

	(ii)	Carbohydrates contain only the elements carbon, hydrogen and oxygen.
		Polypeptides contain carbon, hydrogen, oxygen and nitrogen.
		Name one other element present in polypeptides.
		[1]
(c*	The	nitrogen cycle shares many similarities with the carbon cycle.
(0)		
	Des	cribe the similarities between the nitrogen cycle and the carbon cycle.
		[6]
	۷ ۵۹	
	Add	itional answer space if required.