	Α	It is a greenhouse gas.
	В	It is an alkene.
	С	It is formed by decomposition of vegetation.
	D	It is used as a fuel.
2	Whi	ch process does not produce carbon dioxide?
	Α	complete combustion of a fossil fuel
	В	fermentation
	С	reaction of an alkali with a carbonate
	D	respiration
3		con dioxide and methane both contribute to climate change. sich process produces both gases? complete combustion of natural gas farming cattle heating calcium carbonate respiration
4 ln w	vhich	reaction is carbon dioxide not produced?
Α	cor	mplete combustion of petrol
В	hyd	drochloric acid reacting with magnesium
С	res	piration
D	the	ermal decomposition of limestone

1 Which statement about methane is **not** correct?

5		ranted vegetation is sometimes placed in a bin where it decays to form compost. This mpost can be used to fertilise soils.							
	Wh bin	ich gas is likely to be present in a higher percentage inside the bin than in the air outside the ?							
	Α	carbon monoxide							
	В	3 methane							
	С	oxygen							
	D	sulfur dioxide							
6	Carb	oon dioxide and methane are 'greenhouse gases' which contribute to global warming.							
	Wh	nich process does not increase global warming?							
	Α	burning fossil fuels							
	В	decay of organic waste							
	С	farming cattle for beef							
	D	growing crops such as sugar cane							
7	The	ese statements are about a gas.							
		1 It is produced by thermal decomposition of a carbonate.							
		2 It is produced by the fermentation of glucose.							
		3 It makes up 1% of unpolluted air.							
		4 It is produced during the production of steel from iron.							
	W	Which statements are correct for carbon dioxide?							
	A								
	^	Tand 2 only B 1, 2 and 3 C 1, 2 and 4 D 1, 3 and 4							

8 F	8 Four reactions produce carbon dioxide.										
	1 respiration										
		2	fermentation	on							
		3	3 combustion of methane								
		4 manufacture of lime									
	Which reactions do not use oxygen from the air?										
	Α	1 and 2	В	1 a	nd 3	C 2	2 and	d 4	D 3	3 an	d 4
9 (Gas X is a waste gas from digestion in animals. Gas Y is formed when gas X is burnt with a small amount of oxygen. Gas Z is formed when gas X is burnt with an excess of oxygen. What are X, Y and Z?										
		<u> </u>	X			,			Z		
	A	Car	bon dioxide	.	 meth			carbon ı		ide	
	B carbon monoxide			meth			carbon				
	C		methane		carbon dioxide		carbon i				
	D		methane		carbon m	onoxio	de	carbon	dioxid	de	
	The list gives four experiments carried out with calcium carbonate. 1 acid added 2 alkali added 3 heated strongly 4 water added Which experiments produce carbon dioxide?										
			nd 2	В	1 and 3			2 and 3	D) 1	2 and 4
	,	· iai		_	i dila 0	`		- 4114 0	L	- 4	_ GIIG T

11	\\/hich	ctatament	about	mothana	ic n	ot correct?
11	VVIIICII	Statement	about	memane	18 11	oi conect?

- **A** It is a liquid produced by distilling petroleum.
- **B** It is produced as vegetation decomposes.
- **C** It is produced by animals, such as cows.
- **D** It is used as a fuel.

12 Which pollutant gas is produced by the decomposition of vegetation?

- A carbon monoxide
- **B** methane
- C nitrogen oxide
- **D** sulfur dioxide

13 In which process is carbon dioxide not formed?

- A burning of natural gas
- **B** fermentation
- C heating lime
- **D** respiration

14 Which information about carbon dioxide and methane is correct?

		carbon dioxide	methane	
Α	formed when vegetation decomposes	✓	x	key
В	greenhouse gas	✓	✓	✓ = true
С	present in unpolluted air	x	x	x = false
D	produced during respiration	X	✓	

- 15 The list shows four methods that were suggested for the formation of carbon dioxide.
 - 1 action of an alkali on a carbonate
 - 2 action of heat on a carbonate
 - 3 complete combustion of methane
 - 4 reaction of a carbonate with oxygen

Which methods would result in the production of carbon dioxide?

- **A** 1 and 2
- **B** 1 and 4
- **C** 2 and 3
- **D** 3 and 4
- 16 Which process does not produce carbon dioxide?
 - **A** combustion of petrol
 - **B** reaction between an acid and a metal hydroxide
 - **C** reaction between an acid and a carbonate
 - **D** respiration
- 17 Gas X is a waste gas from digestion in animals.

Gas Y is formed when gas X is burnt with a small amount of oxygen.

Gas Z is formed when gas X is burnt with an excess of oxygen.

What are X, Y and Z?

	X	Υ	Z
Α	carbon dioxide	methane	carbon monoxide
В	carbon monoxide	methane	carbon dioxide
С	methane	carbon dioxide	carbon monoxide
D	methane	carbon monoxide	carbon dioxide

18 Carbon dioxide and methane are 'greenhouse gases' which contribute to global warming.

Which process does **not** increase global warming?

- **A** burning fossil fuels
- B decay of organic waste
- C farming cattle for beef
- **D** growing crops such as sugar cane
- 19 Which pollutant gas is produced by the decomposition of vegetation?
 - A carbon monoxide
 - **B** methane
 - C nitrogen oxide
 - **D** sulfur dioxide
- 20 The table gives the composition of the atmosphere of four newly discovered planets.

planet	composition of atmosphere
W	argon, carbon dioxide and oxygen
X	argon, nitrogen and oxygen
Y	argon, carbon dioxide and methane
Z	methane, nitrogen and oxygen

On which planets is the greenhouse effect likely to occur?

- **A** Wonly
- **B** W, X and Z
- C W and Y only
- **D** W, Y and Z

21	Greenhouse	gases ma	ay contrib	ute to clir	mate change.

Two of these gases are emitted into the atmosphere as a result of processes within animals.

Gas1..... is produced by process3......

Gas2..... is produced by process4......

Which words correctly complete gaps 1, 2, 3 and 4?

	1	2	3	4
A	СО	C ₂ H ₆	digestion	respiration
В	co	C ₂ H ₆	respiration	digestion
С	CO ₂	CH ₄	digestion	respiration
D	CO ₂	CH₄	respiration	digestion

22 Which information about carbon dioxide and methane is correct?

		carbon dioxide	methane
Α	formed when vegetation decomposes	✓	X
В	greenhouse gas	✓	✓
С	present in unpolluted air	X	x
D	produced during respiration	X	✓

23 Which statement about methane is **not** correct?

- A It is a liquid produced by distilling petroleum.
- **B** It is produced as vegetation decomposes.
- **C** It is produced by animals such as cows.
- **D** It is used as a fuel.

- 24 A newspaper article claims that carbon dioxide is formed as follows.
 - 1 during respiration
 - 2 when calcium carbonate reacts with hydrochloric acid
 - 3 when methane burns in air

Which statements are correct?

- **A** 1, 2
- **B** 1 and 2 only
- C 1 and 3 only
- **D** 2 and 3 only