## PART II

•		swer all the questions.			
(01)	On	e of the main interdependent components of the earth's physical system is the			
(,	atn	nosphere. Many studies are done by the scientists on atmosphere and the			
		ucture of the earth.			
		sed on these factors, briefly answer the following questions.			
,	. Du				
	i)	Which layer of the earth's structure provides soil necessary for agriculture			
2	•/	(1)			
	ii)	What is the name given to the movement of tectonic plates, when two tectonic			
	.117	plates move towards each other and collide?			
	****	Which atmospheric layer holds high temperature when comparing with the rest			
-	iii)	145			
		of the layers?			
	iv)	Write 2 adverse effects caused due to air pollution.			
		(2)			
	v)	Without the protective layers of gasses that make up earth's atmosphere, the			
		harsh conditions of the Solar system would render the planet a barren.			
		Mention two advantages of having the earth's atmosphere.			
		(0)			
		(2)			
-	vi)	In which layer of the earth's structure that you find large amounts of magnesium			
	vii)	On which atmospheric layer does the ozone layer stands? Write the importance			
		of having a ozone layer.			
		(1)			
٠.					

(02) The following items were collected by a student to perform an activity.
 A bathroom mirror (A), Side mirror of a vehicle (B), A mirror used by a dentist to inspect teeth (C)
 After several observations these items were tabulated as given below.
 Fill the space given in the table.

Diagram P	urpose of use	Type of mirror		
	A B C	d		

		(2 1/2)			
i.	What is the name given to the image formed when a glowing candle is	placed in			
	front of a mirror.	_ (1/2)			
ii.	Mention 2 features of the image formed by the mirror A.				
		_ _ (1)			
iii.	Write the number of images formed when two plane mirrors are kept at an angle				
	of 60 <sup>0</sup> .	(1)			
iv.	Mention the type of mirror suitable for the below given instance.				
•	Always upright a				
	Image formed by the mirror				
	Can be inverted b.				
		(2)			

		front of the ba	ll the screen a	opeared as sho	wn below.		
		(1)					
		Name a and b					
	· .	a		a —			
		b			-		
				b	1		
	!						-
				·			
:							
•	1		: -				
		·			- /  		
	.*						
	• .		•	7			
-		Name the above	device which	is made using	plane mirrors.		
	vi.	Draw a ray diag	·	•			makes
		the tree visible.			, , , , , , , , ,		(2)
(03)	Con	nversion of comp	olex food into	simpler form	ns and it's ah	sorntion is the	a main
		· ction of the diges			io ana ito ap	oorption is the	·
i Li		ognize the parts		e dipestive svo	stem that nerf	orms the helo	w aivo
7,7 KT		ctions.	Marin 21 Min	- 4.60030 37.	com that peri	ortio the belo	M RIAC
- 1 - 1		Where the digest	ion begins				.5
	*	The passage that			cavity to the c	 tomach	
		Place where diges				1.00	
	100	The common area					<del></del>
i a y <sup>ree</sup> Berger	~, ·		. For the digest	ixe naceand t	à me resbirg <u>r</u> o	ry tract	
							(4)

When a screen is kept behind a rubber ball and a glowing torchis directed in

(06)			
i.	n n	This device serves as a useful instrument of he	ow a
		vibrating object can produce sound.	
		What is this device?	(1)
ii.	The given illustration is to exp	perience the propagation of sound.	
	a) What will you connect to x, y ends of the electric be	ell.	
	b) Mention your observation	Electric bell Bell jar	
	c) For what purpose does the vacuum is connected to the bell jar?	1 To +h0	
•	d) Mention the observation vacuum pump is evacuati		
	e) Based on the above obse what will be the conclusion		(5)
iii.	When lightning is about to s	trike, what do you notice first?	
••••••••••••••••••••••••••••••••••••••	mention reason for your an		(2)
iv.	In which medium does soun	d travel fastest?	(1)
٧.	Mention the three main way	ys that musical instruments produce sound.	(1)