Class:	.О	S	F	R	D	Student Na	în.	
Part /	4 /16					,		
Part I	3 / 27							
TOTA	۸L			/43				
						,		

ANSWER SHEET for MULTIPLE CHOICE -Clearly mark 1 answer for each question.

QUESTION	А	В	C .	D
1			0	
2				0
3	0			
4				Q
5			0	
6			0	
7	0			
8				Q
9			0	
10				٥
11	0			
12	0			
13			Q	
14				0
15		0	-	
16 .				0

27 marks Attempt Questions 16-19. Allow about 35 minutes for this section						
Question 16 (15 marks)	Marks					
The paragraph below is a student's write-up	of an experiment.					
some of the crystals in it and stirred the mixt some remained on the bottom of the tube no 2. I filtered the mixture and then evaporated amount of solid left behind and found that 6. 3.Then I did it again but this time I heated th	d all the water from the solution. I weighed the .0 g had been dissolved. The water using a Bunsen burner, gauze mat and d form a retort stand using water at 29ºC. I found					
(a) Write an aim appropriate for the exp	periment					
To find whow tempreture affect	s how much crystals dissolves in water					
(b) Complete the table for the student's						
Tempreture of the rater (°L)	Amount of crystal dissolved (q)					
1806	6,09					
29°6	8.99					
40°C	10.04					
47%	11.29					
(a) Identify the independent and dependent	variable for this experiment					

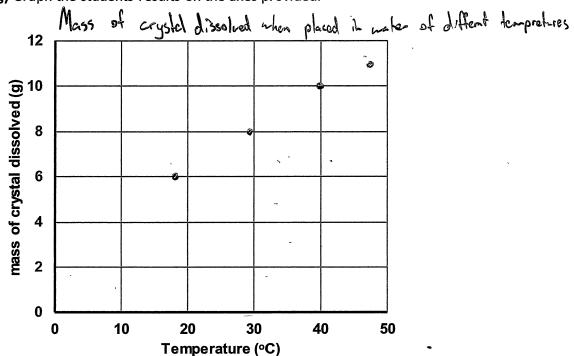
Independent: The tempreture of the nater.

Dependent: The amount of crystal dissolved.

Part II

	(e) Dr	•••••	belled so	ientific dia	gram sho	owing the e	equipme	•••••	quired to carry o	 ut step 3
oss head	(f) Ider		safety i		itudent w	ill have to	be conce	erned with t	Refort — Clemp — Therme — 200ml — 100ml — Ganze n — Tripod — Banson — Gas fa	breefer Beake Water nati
	experi		beaker differing	may the c	be ho	t after	. the	experiher be spill	-f. led.	





(h)	Write a conclusion for the experiment.								
Thei	higher	the	fempreture	of	the meter	the	ಸೌಜ	crystal	* * * ~
	dissolved		•		*				

Question 17 (4 marks)

النفات

The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

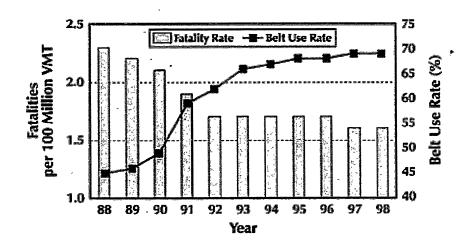
4

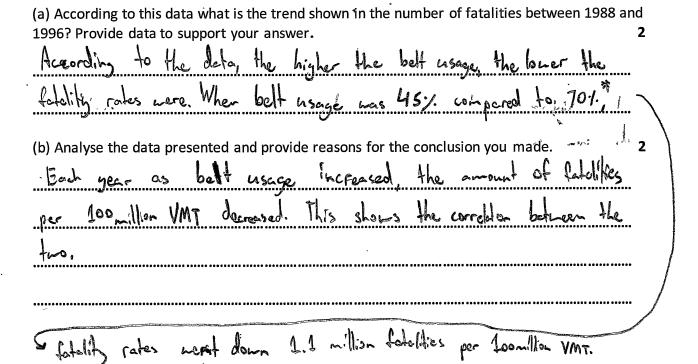
1

Activit <u>y</u>	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	
Shaun is investigating the eating habits of insects	biology
Angus is monitoring the movement of an asteroid	meteorology/astronomy

Question 18. (4 marks).

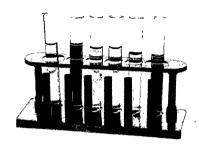
The graph shows information about road fatalities and the use of seat belts in cars.





Question 19. (4 marks).

The drawing made by a scientist was twice as big as the real size of the object. Determine the actual length of the whole piece of equipment. Show your working. **2**



Since each test tibe should be 10ml, so the diagram should be 9cm, wide, since the digran is 4.5cm wide. The height

b) There are some problems with the equipment diagram above. Identify two things that the scientist needs to change to accurate represent the equipment above.

The diggram is drawn in 3D and it should be in 2D. The diagram is also not labeled

should be ben fell &

2

END OF EXAM