Class: G	0	S	F	R	(D)	Student	Name: Alexanter (av	1		
Part A	1/16								Λ	
Part E	3 / 27									
тота	L			/43						·
ANSWE	R SHEE	T for	MULTIPLI	E CHOICE	-Clearl	y mark 1	answer for e	ach qu	estion	
QUEST	ION		A		В		С		D	
1							- /			
2									V	
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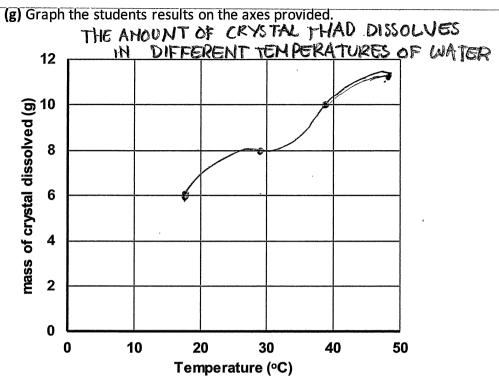
Part II	-
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section	
Question 16 (15 marks)	Marks
The paragraph below is a student's write-up of a	an experiment.
1. I put 100 mL of water in a test tube and meassome of the crystals in it and stirred the mixture some remained on the bottom of the tube no m 2. I filtered the mixture and then evaporated all amount of solid left behind and found that 6.0 g 3. Then I did it again but this time I heated the w tripod while the thermometer was suspended for that 8.0 g dissolved. 4. I repeated it at 40°C and at 47°C and got 10.00	e to dissolve the crystals. I kept stirring until atter how much longer I stirred. I the water from the solution. I weighed the I had been dissolved. Water using a Bunsen burner, gauze mat and form a retort stand using water at 29°C. I found
(a) Write an aim appropriate for the experi	ment.
	uperature of the water affects how much
(b) \ Complete the table for the student's res	ults. Amount of crystal disolved (9)
18.00	6109
290 C	8,09
4000	10.09
4700	11,29

(c) Identify the independent and dependent variable for this experiment.

Dependant: the temperature of the water

Independant: the crystals in the water

	(e) Draw a labelled scientific diagram showing the equipment set up required to carry out start as described above.	ер 3
	Clowb	
	Boss head Thermometer - Goode Goode	max (250m
	Test tobe	V/N 609
		The pripar
,	Canorio Canorio	
ુમ ^{ું}		rack bur
fort star	nd	YOUR BUT
	crystals liquid	
	(f) Identify two safety issues the student will have to be concerned with through this experiment.	2
	They would have to turn the burner off when the are not using it.	•
	They would have to wear safety glasses when using bursen Burner	



(h)	Write a conclusion	on for the experiment.		1
•••••	the higher the	temperative was, the more	orystal that gets dissolved in	.Hne
	test tube			

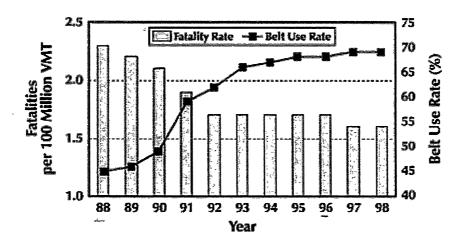
Question 17 (4 marks)

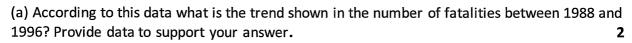
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Geology
Beau is developing a new type of plastic	-cinemat ry Chemistry
Shaun is investigating the eating habits of insects	entendogy Entemology
Angus is monitoring the movement of an asteroid	astronomy.

Question 18. (4 marks).

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





from # 1988-1996 the Galattes have massively reduced as the use of seatbelts go up almost by 500%.

(b) Analyse the data presented and provide reasons for the conclusion you made.

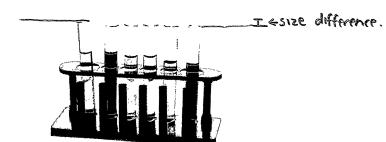
on you made. 2

I gave a conclusion like this because from 1988 to 1996, the crashes veduced by 600,000 (approx) and the use of seatbelts during

the same period of time ovent up by 25%.

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**



total length of rack= 4.3 actual size= 4.3 = 2=2.15cm = rack	
test tube = 0,4 cm. actual size = 0,4x 0,4 = 2 = 0,2 cm = tu	lbe.
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.	2
- same size test tubes -20 drawring	
-no colours :	

END OF EXAM