Class: G O S	F	R	Student Name: Mia lee	
Part A /16				
Part B / 27				
TOTAL		/43		

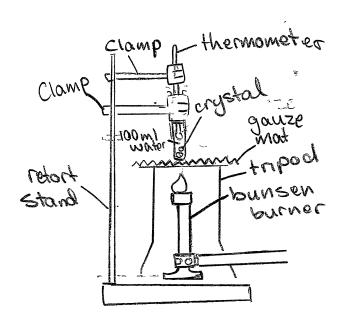
ANSWER SHEET for MULTIPLE CHOICE -Clearly mark 1 answer for each question.

QUESTION	А	В	С	D
1			V	· ·
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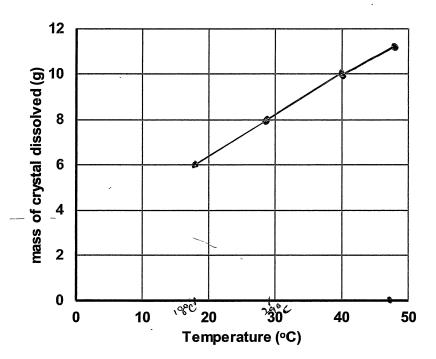
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section	
Question 16 (15 marks)	Marks
The paragraph below is a student's write-up of	an experiment.
1. I put 100 mL of water in a test tube and measome of the crystals in it and stirred the mixtur some remained on the bottom of the tube no magnetic 2. I filtered the mixture and then evaporated all amount of solid left behind and found that 6.0 gas. Then I did it again but this time I heated the water 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 gas.	te to dissolve the crystals. I kept stirring until matter how much longer I stirred. Il the water from the solution. I weighed the g had been dissolved. water using a Bunsen burner, gauze mat and form a retort stand using water at 29ºC. I found
(a) Write an aim appropriate for the experi	
(b) Complete the table for the student's res	sults. 2
Temperature: (°C) 18°C 29°C 40°C 47°C	(9) aroms of molted crystal 69 80 100 11.29
(c) Identify the independent and dependent variable landspendant: The cristale Dependent. The temperature	5

Part II

(d) Identify a variable that needs to be controlled during the experiment to make it a fair or valid test.
The amount of crystals added to the
water
(e) Draw a labelled scientific diagram showing the equipment set up required to carry out step 3 as described above.



(f) Identify two safety issues the student will have to be concerned with through this experiment.	2
1# Checking & the air holes are open at the	
start of the experiment	
24 No jackets	
7	•



(h)	Write a conclusion for	r the experim	nent.			1
The	hother the	unter,	HAQ	ware	Owount & D	cristals
	ا دلايخواريو				,	

Question 17 (4 marks)

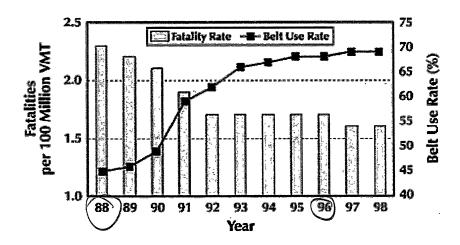
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

4

Activity	Branch of Science
Paris is studying the crystals embedded in a rock.	Bologist
Beau is, developing a new type of plastic	O 2
Shaun is investigating the eating habits of insects	·
Angus is monitoring the movement of an asteroid	Astrology

Question 18. (4 marks).

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



(a) According to this data what is the trend shown in the number of fatalities between 1988 and 1996? Provide data to support your answer. 2

14 has been either been decreasing or staying the same

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

2

In 1988, there were around 2.3 M Fathlities, then
in 1989 there were around 2.2 M, then 21 M.
1.8 M, 1.7 M, 1.7 M, 1.7 M, 1.7 M, 1.7 M. Thus, its
been both decreasing and straying the same.

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.
(15 this the drawing or the aichial country) 43mm 43mm 43mm 46.6cm
Length. 8.6 cm
o) There are some problems with the equipment diagram above. Identify two things that the cientist needs to change to accurate represent the equipment above.
Make the anale eye lovel, and rotate it
equipment.

END OF EXAM