Part A /16 Part B / 27 TOTAL /43	Class: G O	S	F	R	(D)	Student Name: Merryn Holland
	Part A /16					V
TOTAL /43	Part B / 27	7		<u></u>		
	TOTAL			/43		

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

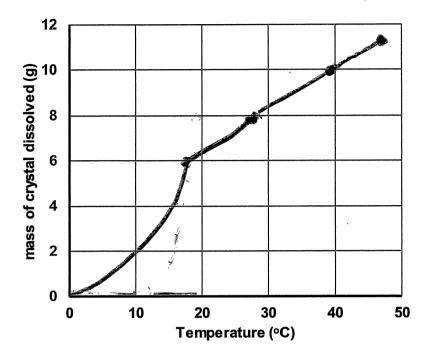
QUESTION A B C D

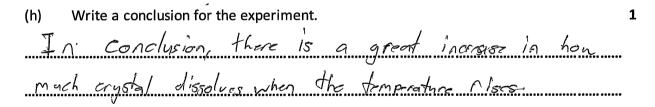
QUESTION	A	В	C	ט
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2			<i>C</i>	
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Part II
27 marks Attempt Questions 16-19. Allow about 35 minutes for this section
Question 16 (15 marks) Marks
The paragraph below is a student's write-up of an experiment.
1. I put 100 mL of water in a test tube and measured its temperature. It was 18°C. Then I put some of the crystals in it and stirred the mixture to dissolve the crystals. I kept stirring until some remained on the bottom of the tube no matter how much longer I stirred. 2. I filtered the mixture and then evaporated all the water from the solution. I weighed the amount of solid left behind and found that 6.0 g had been dissolved. 3. Then I did it again but this time I heated the water using a Bunsen burner, gauze mat and tripod while the thermometer was suspended form a retort stand using water at 29°C. I found that 8.0 g dissolved. 4. I repeated it at 40°C and at 47°C and got 10.0 g and 11.2 g as my results
(a) Write an aim appropriate for the experiment. 1 1 1 1 1 1 1 1 1 1 1 1 1
(b) Complete the table for the student's results.
New Corr 15: Wright of dissolved mothers 18 6.0 190 10.0 11.2
(c) Identify the independent and dependent variable for this experiment. 2 Independent - Temp of the House Water Derendent - Weight of the dissolved matter

(d) Identify a variable that needs to be controlled during the experiment to make it a fair or valid test.
the You need to have the same amount of eigstal, and
you need to keep it in the same liquid
(e) Draw a labelled scientific diagram showing the equipment set up required to carry out step 3 as described above. Clamp Thermometre Head Joons water
Retort Stand Burson Burson Tripod
(f) Identify two safety issues the student will have to be concerned with through this experiment. 2 The Student Needs to worth the Flane and take
his The Stadent needs to take his jacket off
if he is waring one due to the flare and
he needs to wear leather show and safety glasses so
he want get glass in his eggs eyes or fact.

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Question 17 (4 marks)

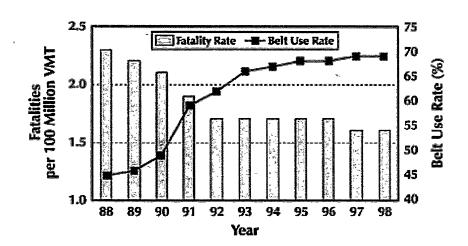
The following scientists are working in different branches or disciplines of science. Identify which branch each is working in:

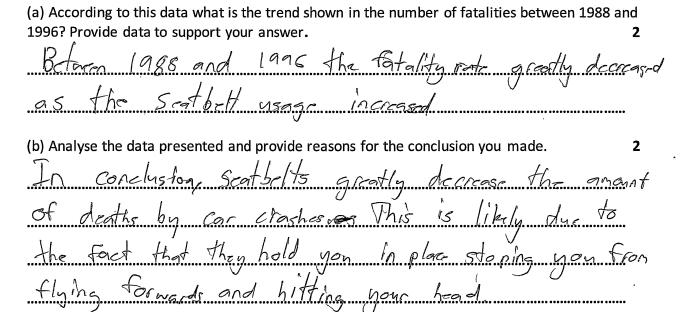
4

Activit <u>y</u>	Branch of Science
Paris is studying the crystals embedded in a rock.	Goologist - Geology
Beau is developing a new type of plastic	Chemist - Chemistry
Shaun is investigating the eating habits of insects	Biologist - Biology
Angus is monitoring the movement of an asteroid	Physicist - Physics

Question 18. (4 marks).

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





Determine the actual length of the whole piece of equipment. Show your working. 2
Li2=A Liam- 2.25cn
2,26cn 226mn 0.0226m
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. There 15 no Colour in a Scientific diagram. If needs to be 20 not 80

The drawing made by a scientist was twice as big as the real size of the object.

Question 19. (4 marks).

END OF EXAM