

## 7. GROUPS 1 & 2

### SECTION B

Answer ALL the questions. Write your answers in the spaces provided.

- 1 Magnesium oxide, known as magnesia, can be produced by the thermal decomposition of magnesium carbonate.

The equation for the reaction is



- \*(a) Other Group 2 carbonates also undergo thermal decomposition.

State and explain the trend in thermal stability of carbonates down Group 2.

(4)

Thermal stability increases down the group

Because ionic radius increases as you go down the group

This results in less polarisation (distortion) of the carbonate ion

And less weakening of the covalent bonds (C-O) within the carbonate ion

- \*(c) State why carrying out a flame test is not an appropriate way to confirm the presence of magnesium ions in the sample of magnesia.

(1)

Magnesium ions give no flame colour

OR

Energy is emitted with Mg ions is outside of the visible region

(Total for Question 1 = 15 marks)

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web power split device which is a single pg in this paper in this section the basic mechanisms of a single pg and possible configurations are described for further developments in clutch placements fig 1 shows a pg and its equivalent lever diagram 15 the three nodes on the lever diagram represent the ring gear carrier

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web jul 18 2016 model four touring perhaps this belongs in the newbie forum but i m trying to understand the functioning of the psd i understand that initially mg2 may power the car with the ice stopped this means that mg1 is turning and because it is a permanent magnet device it should be generating power

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web feb 10 2015 i ran across this page yesterday and was fascinated by the inner workings of the power split device psd i also noticed that there was enough information there for me to put together an animation and working interactive demo of the psd with controls for input from ice and mg2 so i spent a couple hours putting it together in maya

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web energy sources i e battery and fuel in hybrid vehicles it shows the reader how to implement an energy management strategy that decides how much of the vehicle s power is provided by each

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web nov 6 2016 introduction many resources and threads exist that describe the prius power split device they correctly describe how rpms can be calculated and how torque is split but i did not find any that would correctly describe how the power is split the solution seems easy at first power is rpm multiplied by torque

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web the power split device the prius transmission includes a special gear set that toyota call the power split device psd this is an epicyclic or planetary gear similar to those used in automatic transmissions however its use in the prius is very different as i hope to explain



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web apr 10 2008 this diagram makes a very nice demonstration about how the mg1 goes from thru 0 at about 65 mph per this diagram to it is a very gradual motion if one is watching the speed of the car and that transition thru 0 should not be stressing the gear components imo in normal operation

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