1. The diagram below is a depiction of a part of an AC induction motor. Explain the role and function of this part.

## Image unlinked

(nuclear fission) bombs during World War II.	
Discuss the significance of this project for society.	
The process used industrially to convert some fractions from the refining of petroleum into useful products such as ethene is:	
A catalytic cracking	
A catalytic cracking  B fractional distillation  C polymerisation	

## deal. study wild. cards

1) Loud speakers	
and	
2) Galvanometers	
Justify the procedure you used to compare the reactivities of an alkane and i corresponding alkene. Name the alkane, alkene and any other reagents used	

6. A solution contains three cations, Ba<sup>2+</sup>, Cu<sup>2+</sup> and Pb<sup>2+</sup>. The flow chart indicates the plan used to confirm the identity of these cations.

## Image unlinked

5

(a)	N	lame	Precipitate 2	2.
-----	---	------	---------------	----

- (b) Write a balanced net ionic equation for the formation of Precipitate 1.
- (c) Suggest a test and the expected result that would confirm the identity of the metal cation remaining in Filtrate 2.

	1
Identify the occurrences of transformers in the society and ju	ustify their necessity.

10. Describe the force(s) experienced by astronauts and objects inside international space station.