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

-			
-			
-			

The Manhattan Project is the code name given to the development of atomic (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:	_
The process used industrially to convert some fractions from the refining of petroleum into useful products such as ethene is: A catalytic cracking	_
petroleum into useful products such as ethene is:	
petroleum into useful products such as ethene is: A catalytic cracking	

Using the aid of diagrams, outline how is motor effect used in:	
1) Loud speakers	
and	
2) Galvanometers	
Justify the procedure you used to compare the reactivities of an alka corresponding alkene. Name the alkane, alkene and any other reage	ne and its nts used.

Image unlinked

(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.

(a) Name Precipitate 2.

		_
		_
		_
		_
		_
Identify the occurrences of	of transformers in the society and justify their necessity.	
		_
		_
		_
		_
		_

Discuss the use of eddy currents in the context of electromagnetic breaking and induction cook tops.	
	•
	1
Describe the force(s) experienced by astronauts and objects inside international space station.	