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

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Discuss the significance of this project for society.	
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The process used industrially to convert some fractions from the refining petroleum into useful products such as ethene is:	of
pourous and decreal products should be contained to	
A catalytic cracking	
B fractional distillation	
C polymerisation	

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 alkane and its corresponding alkene. Name the alkane, alkene and any other reagents used.	
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6. A solution contains three cations, Ba²⁺, Cu²⁺ and Pb²⁺. The flow chart indicates the plan used to confirm the identity of these cations.

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(a)	Name	Precipitate 2.
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- (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.

cathode ray.	
Identify the occurrences of tran	asformers in the society and justify their necessity.
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10. Describe the force(s) experienced by astronauts and objects inside international space station.