## 2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Physics

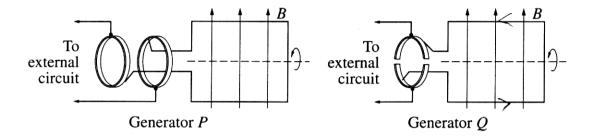
Section I – Part B (continued)

Marks

1

## Question 22 (6 marks)

Two types of generator are shown in the diagram.



(a) What is the function of the brush in a generator?

To transfer the current created from the turning

- (b) Which of these generators is a DC generator? Justify your choice.

  Generator Qic because it uses split ring commutator and brushes. When turning an alternating current is created the split rings change what side of the whe three are on so the current secones a direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as apposed to the secones and direct current ie/ three as a secone and direct current
- (c) Outline why AC generators are used in large-scale electrical power production.

  It is easier to convert AC to DC than DC to AC have both aphone Tanformer only work with AC

  can Manipulate Vollage and current so easier less heat lost as Manaported at high vollage and law current.

  It is easier to "top" into AC for different houses along a street.