2002 HIGHER SCHOOL CERTIFICATE EXAMINATION **Physics**

Section I – Part B (continued)

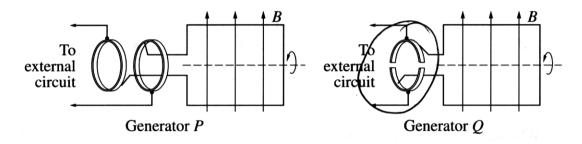
Marks

1

3

Question 22 (6 marks)

Two types of generator are shown in the diagram.



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

TO let the noused emf leave the generater with minimised fragion. (energy loss)

Which of these generators is a DC generator? Justify your choice.

Generator Q is the DC generator. It features the split rings of a commutator to change the alternating current into a direct current. AC generates need ac curent and thus do not utilise the split ring commutate.

Outline why AC generators are used in large-scale electrical power production. (c)

2 Al generators produce as current which is suitable for the use in transformers. Transformers encoble voltage to be stepped up during tonsmission to reduce energy loss in the firm of neot of the result of odded chent. (P=VI) & (&= VIT)