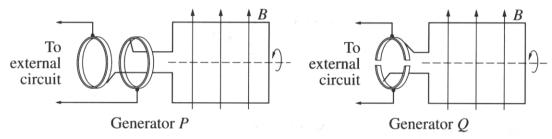
2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Physics

Section I – Part B (continued)

Marks

Question 22 (6 marks)

Two types of generator are shown in the diagram.



What is the function of the brush in a generator? (a) 1 The brush provides good contact with he coils and facilitates the transfer of generaled electricity buto the outgoing wives. Which of these generators is a DC generator? Justify your choice. (b) 3 Generator Q is a DC generator because it utilises a split ving commutator which reverse te current direction every '& revolution. time Misis equivalent to DC current. Outline why AC generators are used in large-scale electrical power production. 2 AC generators are used in large-scale electrical power production because Ac power is easy to transmit over a power grid and into nomes and undustrial

produce it on a large-scale.

applications. AC power is the standard delivered to all power owners named hence the necessity to develo