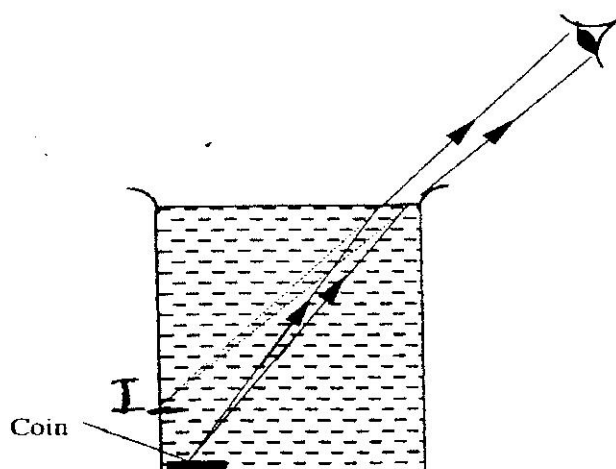


Expected Response



In general the area of optics was poorly done. Candidates seem not to have understood certain concepts in this area. Teachers may have gone through this section of the syllabus in a hurry and without paying attention to details.

Question 26

The capacitors in the circuit in Figure 14 are identical and initially uncharged.

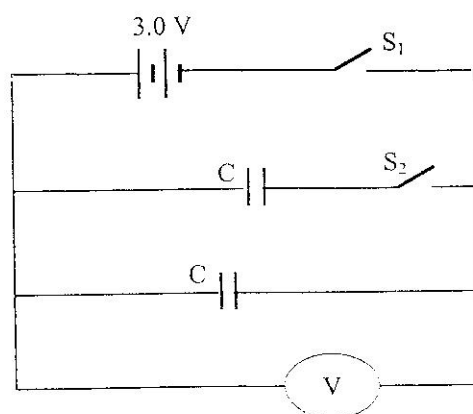


Figure 14

Switch S_1 is closed while switch S_2 remains open. After sometime, switch S_1 is opened and switch S_2 closed. Determine the final reading of the voltmeter, V . (3 marks)

Candidates were being tested on their knowledge about the relation between the charge Q , the capacitance C and the potential difference V on the capacitors in the circuit. They were also required to determine the effective capacitance for capacitors connected in parallel.