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(Answer Key)
WORKSHEET
EXPERIMENTAL TEST I IMSO 2016

A. Observation

(4 point) Table 1. One switch circuit

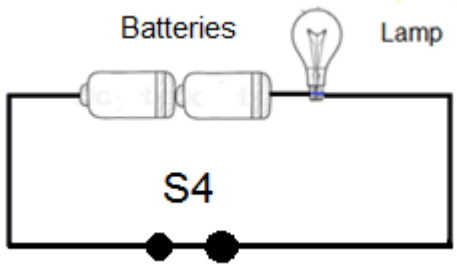
Switch	Switch Position	Lamp Condition (On/Off)	Switch Position	Lamp Condition (On/ Off)
S1	Up	off	Down	off
S2	Up	off	Down	off
S3	Up	off	Down	off
S4	Up	0n	Down	off

(1,5 point) Table 2. Two switches circuit

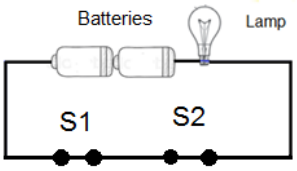
Switch	Switch Position	Lamp Condition (On/Off)
S1 and S2	Up	On
S1 and S3	Up	On
S2 and S3	Up	off

B. Circuit diagram

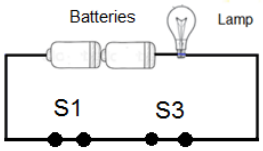
(2 point) Circuit 1



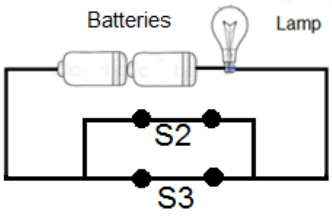
(2 point) Circuit 2



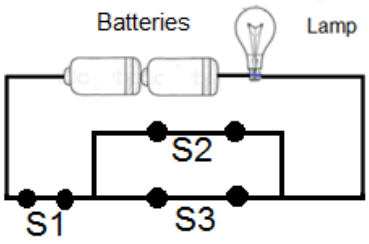
(2 point) Circuit 3



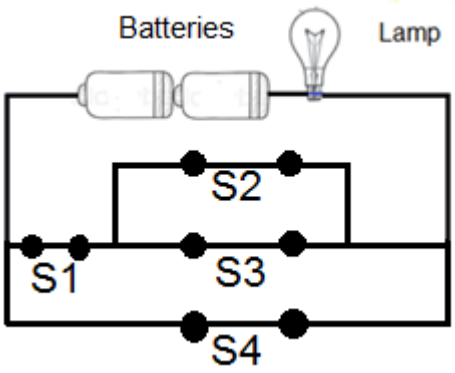
(2 point) Circuit 4



(4 point) Circuit 5



(4,5 point) Circuit 6



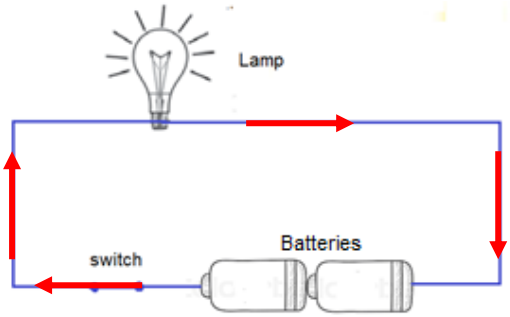
ANSWER SHEET
EXPERIMENTAL TEST I IMSO 2016

1. (1 Poin)

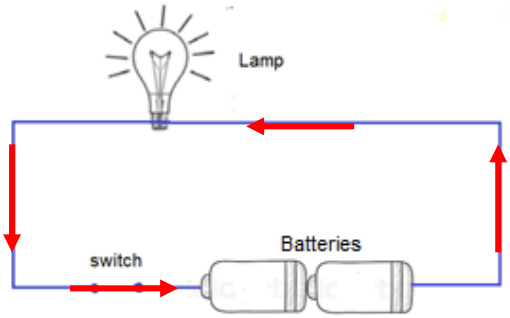
Series circuit = circuit 1, circuit 2, circuit 3

Parallel circuit = circuit 4

2. (1 poin)

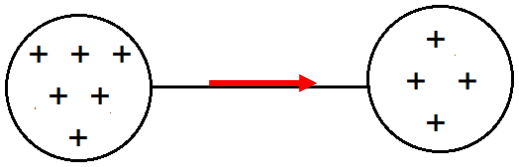
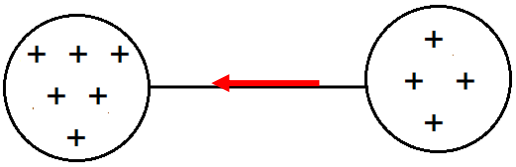
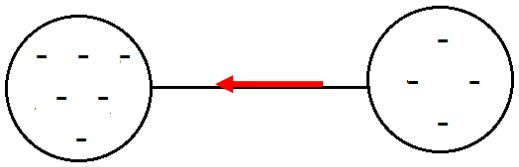
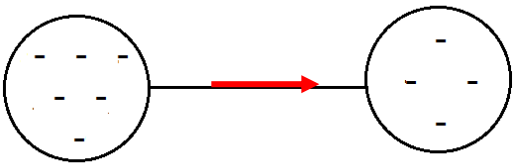
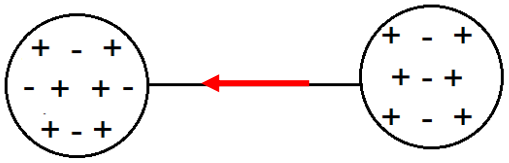
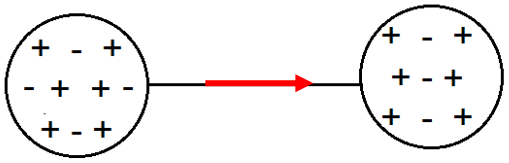


3. (2 poin)



4. (1 Poin) A has higher voltage

5. (3 poin)

	Electrical current direction	**Electron current direction**
A		
B		
C		

6. (2 Poin)

Q = (10+30)/2 = 20 C