Practice Question Set For GCSE

Subject: Physics



Paper-1 Topic: GCSE Triple Science_Electricity (Low Demand Questions)

Max. Marks : 20 Marks Mark Schemes			Time : 20 Minutes
(a)	20		1
(b)	50		1
(c)	(i)	115	1
	(ii)	230	
	(iii)	if one goes out the other still works	1
	` ,	or	
		brighter accept power (output) is greater	
		can be switched on/off independently is insufficient	1
(d)	the	outside/casing is plastic	
		there is plastic around the wires is insufficient	
		it is plastic is insufficient	1
	and	plastic is an insulator	
		an answer the light fitting is double insulated gains both marks	1
(e)	(res	idual current) circuit breaker	
	`	accept RCCB	
		accept RCBO	
		accept RCCD	
		accept RCB	
		accept miniature circuit breaker / MCB	
		trip switch is insufficient	
		breaker is insufficient	
		do not accept earth wire	4
			1 [8]

(a) 4

1

(b) (i) 2

allow 1 mark for correct substitution ie $I = \frac{100}{1}$

provided no subsequent step

2

(ii) 5

allow 1 mark for correct substitution ie

$$V = \frac{100}{20}$$

provided no subsequent step

[5]

2

Q3.

(a) last box ticked



1

(b) (i) use hotter water (than 60 °C)

accept use boiling water

accept use water at any stated temperature above 60 °C

or

add ice cubes

accept add water at any stated temperature below 12 °C use different temperatures is insufficient

1

(ii) the current increases as the temperature increases

1

(iii) 0.02 (A)

1

(iv) 5 (V)

or

their (b)(iii) × 250 correctly calculated

allow 1 mark for correct substitution ie $V = 0.02 \times 250$

or

 $V = their (b)(iii) \times 250$

2

1

(v) the resistance increases

[7]