

**EXERCISE 1**

	Areas to be marked	Maximum Score	Candidate Score
(a)	Marked at the examination centre	3	
(b)	Correct table of values of current (6x1)	6	
(c)	Correct table of values of power (6x1)	6	
(d)	(i) Labelling of axes correctly (2 x ½)	1	
	(ii) Plotting the graph correctly (6 x ½)	3	
(e)	Two applications (i) Maximum power transfers to load (ii). Impedance matching (2 x ½)	1	
	<b>TOTAL</b>	<b>20 marks</b>	

### EXERCISE 3

	Areas to be marked	Maximum Score	Candidate Score
(a)	Marked at the examination centre	6	
(b)	Correct table of values of current through $R_1$ , $R_2$ , $R_3$ (3x1)	3	
(c)	Total circuit current $I_T$ (2x1)	2	
(d)	Correct value of voltage across $R_1$ , $R_2$ , $R_3$ (3x1)	3	
(e)	Correct Calculated values of $R_1$ , $R_2$ , $R_3$ and $R_T$ (4 x 1 ½)	6	
	<b>TOTAL</b>	<b>20 marks</b>	

### EXERCISE 4

	Areas to be marked	Maximum Score	Candidate Score
(a)	(a) and (c ) Marked at the examination centre	3	
(b)	Behaviour of the LEDs ( The two LEDs glow or flash (2 x ½)	1	
(c)	(ii) Correct number of times each LED flashes in one minutes (2x2)	4	
(d)	Correct Schematic diagram ( 10x1)	10	
(e)	(i) Name of the circuit (1x1)	1	
	(ii) Application of the circuit (1x1)	1	
	<b>TOTAL</b>	<b>20 marks</b>	