4.20.2 Electricity Paper 2 (448/2)

EXERCISE 1

(b)	As per the sample data of measured values of current (6 x 1) and voltage.	6
(c)	As per the sample data of calculated power. (6 x 1)	6
(d)	– Parallax errors – Meter zeroing – Temperature changes.	1

EXERCISE 3

(b)	Current values per the sample data. (7 x ½)	3½
(c)	Power dissipated as per the sample data. (7 x ½)	3½
(d)	– Axes (2 x ½) – Plotting 7 x ½) – Joining curve (1 x ½)	1 3½ ½
(e)	(i) Maximum power dissipated. (1 x 1) (ii) Resistance of the potentiometer at maximum power. (1 x 1)	1 1
(f)	Maximum power transfer. (1 x 1)	1

EXERCISE 4

(c)	As per the sample data. (14 x ½)	7
(d)	– Axes (2 x ½) – Plotting (7 x ½) – Joining curve (1 x ½)	1 3½ ½
(e)	– Forward biasing of a diode. – As a rectifier. (Any 1 x 1)	1
(f)	The device P is a P-n junction diode. (1 x 1)	1