Model Question Paper

Current Electricity - Part III

		Physics	Reg.No. :				
1	.Ans	wer all the Questions.					
I	I.Us	e blue pen only.					
Tim	Time : 01:00:00 Hrs				Total	Marks:	45
Sec	Section-A					5 x 1 =	: 5
1)	The	magnets used to leviate the trains from the rails					
- 1	(a)	permanent electromagnets (b) strong magnetic substances (c) a magnetic field with varying frequency (d) super condu-	ting magnets				
2)	The	special features of carbon resistor					
	(a) s	mall in size (b) stable (c) cheaper (d) all these					
3)	The	ilver ring in a carbon resistor denotes the tolerance range					
	(a) 1	.0% (b) 20% (c) 5% (d) 2%					
4)	If the	re is no coloured ring on the other end of a carbon resistor, then the tolerance's					
	(a) 2	20% (b) 10% (c) 2% (d) 1%					
5)	The	effective resistance of resistors connected in series					
	(a) i	eciprocal of the sum of individual resistors (b) sum of the reciprocal of individual resistors (c) sum of the individual resistor	S				
	(d)	reciprocal of the sum of the square of individual					
Sec	Section-B					5 x 3 = 3	15
6)	6) Define the effective resistance (R _s , R _p) of a number of resistance connected (a) in series and (b) in parallel.						
7)	Wha	t is the sign convention followed in the application of Kirchoff's second law.					
8)	Defi	ne electric energy and electric power.					
9)	State	e the two laws of electrolysis					
10)	Wha	t are the disadvantages of secondary cells?					
Sec	Section-C					5 x 5 = 2	25
11)	Expl	ain the effective resistance of a series network.					
12)	Disti	nguish between electric power and <mark>electric</mark> energy					
13)	List	some application of superconductors.					
14)	Wha	t are the salient features of seconda <mark>ry cells?</mark>					
15)	a)	What is meant by charging of secondary cells?					
		(OR)					
	b)	Explain the effective resistance of a parallel network.					
