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BASIC ELECTRICAL ENGG 2nd/ECE/ETV/EMP/ECEII/COMP/CSE/IT/EEE/0064/Nov'15

Durati	on: 3 Hrs	M.Marks=75
	SECTION A	
Q. 1. Fill in the blanks:-		1x15=15
	One KWH is equal to K cal.	
b.	The unit of conductivity is	
C.	An electrolyte used in a Nickel- cadmium cell is	
d.	A Practical current source has internal resistance.	
	All electrical equipments are connected in to the supply.	
f.	Tesla is the unit of	
g.	The power factors of a pure inductive circuit will be	
	Relative Permeability of vacuum is	
i.	The maximum value of power factor is	
j.	Unit of magnetic flux is	
к. I.	For battery charging supply is required. Form factor is defined as the ratio of and	
	converts mechanical energy into electrical energy.	
	The ratio of true power to apparent power is called	
	The unit of electric potential is	
0.	SECTION B	
Q2 Att	empt any FIVE questions	5x6=30
	Give the merits and demerits of nuclear power plant	
b)	State and explain Kirchoff's current and voltage laws	
c)	Compare series and parallel resonant circuit	
	State and explain Thevenin's theorem	
	Explain faraday's law of electromagnetic induction	
	Give the difference between AC and DC	
•	What is Cell? What is the difference between primary and secondary cells?	
h)	State and explain Ohm's law	
O	SECTION C	2-40 20
	empt any THREE questions	3x10=30
	How current will build up in an R-L circuit?	
b.	What is power factor and how to improve the power factor?	
C.	1	
d.	What do you understand by Self and Mutual induced emf?	
e.	An alternating current is given by the equation I = 10 sin314 t, find	
	a) Max value of current b) frequency c) Time period d) Value of current after,0.01 sec.	