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			2	XII	Physics
the is 230 V its peak value will be					
13.	V _{RMS}	value of the domestic AC supply	c) 115 V	d) 325 ∨	
14.	If the	input to the NOT gate is $A = 10$ 100 b) 1000	c) 1100	d) 0011	
15.	In a i a) c	nuclear reactor, is used a praphite b) cadmium	 c) heavy wate 	er d) liquid s	odium
	c.) E		is Compulsory)		6 x 2 = 12
П.	Ans	wer any 6 questions. (Q.No.24	d emf		•
16.	Ment	tion the ways of producing induce	o onn.		
17.	Wha	t are the uses of X-rays?	•		2
18.	State	Gauss law.	neutron and proto	n?	
19.	Wha	t are the constituent particles of	neutron and proto.		
20.	Defin	ne ampere in terms of force.			1.62
21.	Wha	t is Rayleigh's scattering?			
22.	State	e Malus' Law.	nots?		
23.	Why	steel is preferred in making Ko	ss section carries	a current of 2A. C	alculate the
24.	A co	pper wire of 10 ° m° area of cic	so occuon, ourres		
	curr	ent density.	Part - III		
		Counting (ONo 33	is compulsory)		$6 \times 3 = 18$
111.	Answer any 6 questions. (Q.No.20 to the parallel plate capacitor.				
25.	Obtain the expression for energy stores in the microscopic form.				
20.	List out calient features of magnetic Lorentz Force.				
21.	Obtain an expression for average power of AC over a cycle.				
20.	Write down the properties of electromagnetic waves.				
29.	Differentiate between polarised and unpolarised light.				
30.	List out the laws of Photoelectric effect.				
32	State and prove De Morgan's first and second theorem.				
52.	226 not with an activity of 1 curie is almost a gram.				
33.	33. Show that the moss of radium (BB Ra) with all activity of reality in a				
Given $T_{1/2} = 1600$ years.					
	Oly	1/2			
			Part - IV		5 x 5 = 25
IV.	Ans	wer all the questions.	distantial d	ue to an electric di	nole (OR)
34.	a)	Derive an expression for electr	ostatic potential u	ue to an electric di	
	b)	Derive the mirror equation for	spherical mirror.	t along the axis of	a circular coil
35.	a)	Obtain a relation for the magn	etic field at a point	t along the axis of	a on our and oon
		carrying current using Biot-Sav	an law. (UR)	the equation for m	agnification
	b)	Explain about compound micro	oscope and obtain	f a transformar //	nginneanon.
36.	a)	Explain the principle, construc	tion and working d	ratiatisioniei.	hotoomissive
	b)	What is photoemissive cell? G	ive the construction	in and working of p	notoennasive
	-	cell.		dentionator (OF	
37.	a)	How the emf of two cells are of	compared using po	stentiometer. (OF	of electron
	b)	Explain J.J.Thomson experim	ent to determine th	ne specific charge	
38.	a)	What is emission spectrum?	Explain the types	of emission spectr	

b) Explain the construction and working of a full wave rectifier.

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