12 - STD	
Marks 70	Time 3.00 Hrs.
•	
	15 x 1 = 1
	Marks

	YouTube/ Akwa Academy PA	ART - I				
. <i>P</i>	. Answer all the questions.					
١,	An inductor 20mH, a capacitor 50μF and a resistor 40Ω are connected in series across					
	ource of emf V = 10 sin 340t. The power loss in AC circuit it					
	a) 7.6 W b) 0.89 W		d) 0.67 W			
2.	In an electron microscope, the electrones					
*	voltage is changed to 224KV, then the de					
	electrons would	•				
	a) decrease by 4 times	b) increase by 2 times				
,		d) decrease by 2 times				
3.	Which of the following is an electromagnetic wave?					
	,		d) All of the above			
4.		with respect to t	he instantaneous amplitude of			
	the modulating signal is called	•				
	a) phase modulation) Amplitude modu	ulation			
	c) Pulse width modulation) Frequency mod	ulation			
5.	If the angular speed of rotation of an arma	ature of AC gener	ator is doubled, the induced em			
	will be		v * ×			
	a) same b) doubled c) halved	d) quadrupted			
3.	Which range of frequencies is suitable for	r skywave propag	ation?			
	a) 20 KHz to 250 KHz) 500 KHz to 150	0 KHz			
	c) 10 MHz to 200 MHz	c) 3 MHz to 30 MHz				
7.	If in nuclear fusion process, the masses of the fusing nuclei be m ₁ and m ₂ and the mass of the resultant is m ₃ , then					
•	a) $m_3 = m_1 + m_2$ b) $m_3 = (m_1 - m_2)$ c	$m_3 < (m_1 + m_2)$	d) $m_3 > (m_1 + m_2)$			
3.	if a half wave rectified voltage is fed to a load resistor, which part of a cycle the load					
	current will flow?		*			
	a) 0° - 90° b) 90° - 180° c	c) 0° - 180°	d) 0° - 360°			
),	If a current of 7.5A is maintained in a wire		t de la companya del companya de la companya del companya de la co			
	the wire is a) 6C b					
0.	The ratio of Kinetic energy to the total energy of an electron in a Bohr orbit of the hydrogen					
	atom is		•			
	a) 1:-2 b) 1:-1 c	:) 1 : 1	d) 2 : -1			
1.	wo nuclei have mass numbers in the ratio 1:8. Find the ratio of their nuclear radii					
	a) 1:8 b) 1:2 c		d) 8 : 1			
2.	2. A system consists of N ₀ nucleus at t = 0, then number of nuclei remaining after half					
1	half life $(t = 1/2 T_{10})$		*			
	a) $\frac{N_0}{2}$ b) $\frac{N_0}{\sqrt{2}}$	$\frac{N_0}{n}$	d) N ₀			
	~/ ¬ · · · / /¬	7 .	-/ o ·			

XII - PHYSICS - PAGE 1

infinitely long straight conductor carrying current.

b) Explain the determination of the internal resistance of cell using voltmeter.

b) Discuss the spectral series of hydrogen atom.

38. a) Obtain Lens maker's formula

Kindly Send me your Answer Keys to email id - Padasalai.net@gmail.com

(OR)

XII - PHYSICS - PAGE 2