T C	OMMON HA	LF YEARLY	EXAMINAT	10N - 20	24
MARIO		Standard		eg.No.	2419
Time: 3	3.00 hrs.	PHYS	ICS		Marks: 70
(. An:	If voltage applied correct conclusion a) Q remains the sc) C remains same	d on a capacitor n. same, C is doubled		, C doubled	
2)	There is a current the circuit shown What is the resist	-below. 1	ον	2.5Ω	
. 3)	a) 3.5Ω A toester operation a) 400W	b) 1.5Ω ng at 240V has a b) 2W	P c) 4.5Ω resistance of 120 c) 480W	d) 2.5Ω Ω. Its powe d) 240W	ris
4)	A bar magnet of Pm is bent in the The new magneti	form of an arc as	shown in figure.		<b>&gt;</b>
				609	
5)	a) Pm In an oscillating The charge on the	ne capacitor when	aximum charge	on the capa	citor is Q. y between
6)	a) $\frac{Q}{2}$ In a series RL circ Then the phase di	uit, the resistance	and inductive re	actance are	the same.
7)	a) $\frac{\pi}{4}$ An e.m wave is The instantaneou axis, then the direct	propagating in s oscillating elect	a medium wit	e.m wave is	along +y
	<ul><li>a) -y direction</li><li>The speed of light</li><li>a) its intensity</li><li>c) the nature of p</li></ul>	<ul><li>b) -x direction</li><li>in an isotropic n</li><li>ropagation</li></ul>	c) +z direction nedium depends b) its wavelengt d) the motion of t	d) -z dire on th	ection
	The transverse na a) interference The wavelength $\lambda t$ related by	b) diffraction	c) scattering	d) polaris of same en	ation ergy E are

a)  $\lambda p \propto \lambda e$  b)  $\lambda p \propto \sqrt{\lambda} e$  c)  $\lambda p \propto \frac{1}{\sqrt{\lambda} e}$  d)  $\lambda p \propto \lambda e^2$ 11) The threshold wavelength for a metal surface whose photo electric work function is 3.313eV is a) 4125Å b) 3750Å c) 6000Å d) 2062.5Å

c) 6000Å

