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Name:

Test Type

Chapter

(c) X-rays, visible light, Gamma rays

MCQs, Short & Long question

16 Power Dissipation to End



Roll No.

Class

Unit

(For information 03335126161 parhozone@gmail.com)

12

16

Subject

Date

Time

Physics

). N	o. 1 Tick the best option		22				
enerue e	Electromagnetic waves do not transport:						
	(a) Energy (b) Momentum		(d) Information				
	In what frequency, 1 H inductance offers	, , ,	12 15 1				
2.	(a) 50 Hz (b) 159 Hz	(d) 1590 Hz					
3.	Electron vibrating 94,000 times each sec	(c) 512 Hz cond will produce radio way					
	(a) 94 Hz (b) 940 Hz	(c) 940 KHz	(d) 94 KHz				
	The unit of 1 / \sqrt{LC} is:	(0) 5 13 2222	(4) 3 . 1222				
١.	(a) Second (b) Farad	(c) Henry	(d) Hertz				
5. 5.	In R-L-C series circuit, the energy is diss		(d) Hertz				
	(a) R only (b) R and L	(c) R and C	(d) R, L and C				
	When 10 V is applied to A.C circuit with current of 10 mA, impedance will be:						
7.	(a) 100Ω (b) $10 k\Omega$	(c) 1 k Ω	(d) $0.1 \text{ k}\Omega$				
	Power factor is equal to:	(C) 1 K22	(d) 0.1 K22				
	7. The state of th	(a) and 0	(d) $\cos^{-1}\theta$				
		(c) $\cos \theta$					
	In R-L-C series resonance circuit, at reso		e Z 18;				
	(a) $\sqrt{R^2 + X_L^2}$ (b) R	(c) $R^2 + X_C^2$	(d) X _L				
	3 H	V	/ 11				
	In three phase A.C supply, voltage between						
	(a) 220V (b) 230 V	(c) 400 V	(d) 430 V				
10.	In R-L-C series circuit, the current at res	sonance frequency: (c) Zero					
	(a) Minimum (b) Maximum	(d) Infinite					
11.	In a resonance circuit of frequency 106 H	Iz with inductor of 5 mH, th	e capacitance will be:				
	(a) 5.09 pF (b) 8.16 pF (c) 3.3 pF (d) 10.1 pF						
2.	Infrared radiations have frequency of the						
	(a) 10^{14} (b) 10^{15}	(c) 10^{16}	(d) 10 ²²				
3.	100 μF capacitor is connected to an AC voltage of 24V and frequency 50 Hz. The reactance of the capacitor						
	is:						
	(a) 31.8Ω (b) 30.8Ω	(c) 34.8 Ω	(d) 40 Ω				
14.	Speed of all electromagnetic waves in vacuum is:						
	[II]	1					
	(a) $\sqrt{\mu/\varepsilon}$ (b) $\sqrt{\mu_0 \varepsilon_0}$	(c) $\frac{\mu}{\sqrt{\mu_0 \varepsilon_0}}$	$(\mathrm{d})\frac{1}{\sqrt{\mu_0\varepsilon_0}}$				
	In Parallel resonance circuit power facto	A 44 CM 48	V 140-0				
15. 16.	(a) One (b) Zero	(c) Infinite	(d) 90				
	Which type of radio waves is affected less by electrical interference? (a) A.M (b) F.M (c) Both of these (d) None						
17	In three phase A.C supply, phase differen						
17.		(c) 180°					
18.		(c) 180°	(d) 360°				
	Metal detector works with help of:	(-) I G -iit	(d) NI				
9.	(a) RC circuit (b) RL circuit	(c) LC circuit	(d) None				
	Which consume small power?	(-) N. F (-)	(1) 411 6.1				
	(a) Inductor (b) Resistor	(c) Motor	(d) All of these				
20.	At resonance, parallel resonance circuit						
	(a) Accept (b) Reject	(c) Regulate	(d) None of these				
1.	The range of A.M transmission frequencies is from:						
	(a) 540 kHz to 1600 kHz						
	(c) 88 MHz to 108 MHz	00 MHz					
2.	Which one is in the order of increasing frequency?						
	(a) X-rays, Radio waves, Infrared		e light, radio waves				
	(c) X-rays visible light Gamma rays (d) UV rays X-rays Gamma rays						

(d) UV rays, X-rays, Gamma rays

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Q. No. 2 Write the short answer of these following question

 $6 \times 2 = 12$

- 1) What is Choke? Give its uses.
- 2) What is the principle of metal detector?
- 3) What are the properties of the series resonance circuit?
- 4) In a R-L circuit, will the current lag or lead the voltage? Illustrate you answer by a vector diagram.
- 5) How does doubling the frequency affect the reactance of: (i) an inductor (ii) a capacitor
- 6) What is meant by A.M and F.M?

Q. No. 3 Long question

- A. Describe the principle of generation, transmission and reception of Electromagnetic waves?
- **B.** A 10 mH, 20 Ω coil is connected across 240 V and $\frac{180}{\pi}$ Hz source. How much power does it dissipate?



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