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First Year B. P. T. Examination										
August – 2017 Fundamental of Electrotherapeutics										
		r u	nuamental of	Lie		peutics				
Time : 2 Hours ]				[ Total Marks : <b>50</b>						
1	Long	g ess	ay : (any <b>two</b> )				20			
	(1) Explain the electromagnetic spectrum with its uses.									
	(2) Explain types of transformers with its application.									
(3) What is semiconductor? Write its uses and functions.										
2	Short essay : (any <b>two</b> )						10			
	(1)	Gen	eration of electricit	У						
	(2)	Phys	siology of pain							
	(3)	Diod	le and triode							
3	Short answers : (any <b>five</b> ) 1									
	(1)	Cho	ke coil							
	(2)	Plugs and switches								
	(3)	Earthing								
	(4)	Coupling media								
	(5)	Types of magnet								
(6) Inverse square law.										
<ul> <li>4 Multiple choice questions : 10</li> <li>(1) is the device used to measure the electric current in a circuit.</li> </ul>							10			
		(a)	Rheostat	(b)	Voltmeter					
		(c)	Ammeter	(d)	none of th	e above				
	(2)	) The electric line of force enter into any surface at								
		(a)	180° to surface	(b)	90° to sur	face				
		(c)	45° to surface	(d)	0° to surfa	ice				
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(3)	(3) Following is not unit of potential difference						
	(a)	Volt	(b)	joules per colomb			
	(c)	both (a) and (b)	(d)	none of the above			
(4)	Example of intrinsic conductor is						
	(a)	phosphorus	(b)	boron			
	(c)	indium	(d)	silicon			
(5)	To minimize the skin resistance						
	(a) skin should be shaved off for hair						
	(b) skin should be cleaned with alcohol						
	(c) skin should be made wet						
	(d) all of the above						
(6)	If surface does not allow the ray to pass will occur.						
	(a)	Refraction	(b)	Penetration			
	(c)	Absorption	(d)	Reflection			
(7)	To get function of transistor, which area is selected for giving current?						
	(a)	Base	(b)	Emitter			
	(c)	Collector	(d)	None of the above			
(8)	) Impedance offered by condenser to flow of concerned by called						
	(a) Inductive reactance						
	(b) Capacitive reactance						
	(c)	Inductance					
	(d) Resistance						
(9)	Fast pain is carried by						
	(a)	$A\alpha$ fibers	(b)	$A\beta$ fibers			
	(c)	$A\lambda$ fibers	(d) A	A $\delta$ fibers			
(10)	Unit of capacitance is						
	(a)	Farad	(b)	Henry			
	(c)	Watt	(d)	Volt			

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