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BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Physiotherapy-2021/B.Physiotherapy-2022/B.Physiotherapy-2023

Course Name - Electro Therapy - I Course Code - BPTC402 (Semester IV)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

c) They have same wavelength

L.	Choose the correct alternative from the following		
(i)	Select the therapeutic use of Eddy current		
	a) Produce heat c) Apply drugs in iontophoresis Select the unit of capacitance	b) Produce nerve stimulation d) None of these	
	a) Ampere c) Farad Identify the absolute contraindication for electrical states.	b) Volt d) Joule cal stimulation	
	a) Insensitive skin c) Unconcious patient Select the relation between capacitance and pot	b) Pacemaker d) Ischemic heart disease ential difference in a capacitor	
	a) Direct c) Equal Select the device used to measure EMF of a cell	b) Inverse d) Linear	
(vi)	a) Wheatstone bridge c) Voltmeter Select the factor on which capacitance of a capa	b) Potentiometer d) Ammeter citor depends	
(vii)	a) Area of the plate c) Material and width of dielectric Identify the device which produces Eddy current	b) Material of the plate d) All of these	
(viii)	a) Solid conductor c) Laminated conductor Identify the correct statement in relation to elect	b) Semiconductor d) None of these tromagnetic radiation	
	a) They have same frequency	b) They have same velocity	

(ix) Identify the intensity of electric current at which electric shock is considered severe

d) None of these

	a) 10-20 mA c) >20 mA	b) 15-20 mA d) None of these		
(x)	Establish the upper limit of low frequency curre			
	a) 1000 Hz	b) 50 Hz	RARY	
1 .1	c) 100 Hz	d) 10 Hz Brainwar	8 University	
(XI)	Choose the appropriate current to know tendor	Parasat, Ke	olkata -700125	
	a) Faradic Current	b) TENS d) Galvanic Current		
(xii)	c) Sinusoidal Current Choose the characteristic of pulsed TENS	d) Galvanic Current		
(////	a) Uniphasic	b) Biphasic		
		d) Biphasic, even charge with equ	ual or	
	Biphasic with even charge	unequal pulse shape in both d		
(xiii) Choose the correct full form of TENS			
	a) Transactional Electronic Natural Stimulation	b) Transcutaneous Electronic Pair	Stimulation	
	c) Transcutaneous Electronic Nerve	d) Transcutaneous Electrical Nerv	e Simulation	
	Stimulation			
(XIV) Identify the reason behind negativity of resting			
	a) Potassium is more permeable than sodium	b) Three sodium ejected for two	potassium	
	c) Potassium is brought into the cell and sodium expelled out of the cell	d) All of these		
(xv	Select the alternative name of monophasic Acti	ion potential in diadynamic curren	t	
(22.5	a) Half sinusoidal	b) sinusoidal		
	c) alternating sinusoidal	d) pulsed sinusoidal		
	To a Country of the			
	Grou	ір-В	3 x 5=15	
(Short Answer Type Questions)				
2 1	Write a note on physiological and uses of Fluidoth	nerany.	(3)	
Explain the difference between step- up and step-down transformer.			(3)	
4. Indicate the complications of paraffin wax bath therapy.			(3)	
5. Explain the electrode placement and selection of current for ulnar nerve claw hand.				
6. Analyze the complications of UVR. (3)				
	0	R	(2)	
- 1	Ilustrate the classification of UVR.		(3)	
	Grou	in-C		
Group-C (Long Answer Type Questions) 5 x 6=30				
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7.	Illustrate chronaxie and rheobase.		(5)	
8. Compare the advantages and disadvantages of Moist Heat Packs.			(5)	
9.	Describe the contraindications and dangers of P		(5)	
10. Explain therapeutic uses of IRR.			(5)	
11. Illustrate the hazards of IRR treatment.			(5)	
12.	Determine the different types of tens and its use.	R	(3)	
Explain about indication and contraindication of TENS. (5)				
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