



End Semester/Reappear (Semester IV) Examination May 2025

Programme: BPT

Course: Principles of Bioelectrical Modalities – II

Course Code: 23A404

Enrolment no.

Full Marks: 70

Time: 3 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Describe in brief the advantages of Interferential current.	CO1	Understand	4 x 5 = 20
	or			
b	Mention the indication, contra- indication, precaution and danger of IFT.	CO1	Understand	
	or			
c	Illustrate coupling media and characteristics of it.	CO2	Remember	
	or			
d	Describe the technique of application of short wave diathermy (SWD).	CO2	Understand	
	or			
e	Elaborate on the indication and contra-indication of ultraviolet irradiation.	CO3	Remember	
	or			
f	Describe the Danger and Contra-indication of IRR.	CO3	Understand	
	or			
g	Explain in brief about the physiological and therapeutic effects of contrast bath.	CO4	Understand	
	or			
	What do you understand by Paraffin wax bath therapy?	CO4	Remember	
Section II				
	Long Answer type questions.			
2	Write in detail about the working of NCV in human body.	CO5	Apply	3 x 10 = 30
	or			
3	Describe the types of EMG.	CO5	Understand	
	or			
4	Describe about the working of high-pressure mercury vapor lamp generator with the help of diagram.	CO3	Apply	
	or			
5	Explain the physiological and therapeutic effects of LASER.	CO3	Understand	
	or			
6	Elaborate on the mode of heat transfer in superficial heating modality.	CO4	Remember	
	or			
	Describe danger and contra-indication of Cryotherapy.	CO4	Understand	
Section III				
	Application based questions.			
7	What are the components of ICT, and how do different techniques of procedure interact with these components?	CO1	Analyze	1 x 20 = 20
	or			
	Define IFT. Discuss in brief the physiological and therapeutic effects of it. Explain how will you place electrodes and give treatment in case of Frozen Shoulder.	CO1	Apply	

COURSE OUTCOME

At the end of course, candidate will able to

CO1 Describe medium frequency current and application in human.

CO2 Demonstrate high frequency current like SWD, MWD, UST and its application.

CO3 Demonstrate various Actinotherapy procedure using LASER, UVR

CO4 Describe and apply various therapeutic heat and cold apparatus

CO5 Use and apply diagnostic instrument like EMG, NCV, Biofeedback etc