

Year B. Physiotherapy Examination

Bio-Medical Physics

Date : 20-06-2024, Thursday]

[Max. Marks : 80]

Time : 3 Hours]

Instructions : (1) Figure to the right indicate marks.
 (2) Write legibly.
 (3) Draw diagrams wherever necessary.
 (4) Use separate answer books for each section.

SECTION-I

Q.1 Explain in detail about physical principle & production of LASER. 15
 OR

Q.1 Define faradic current. Write its parameter, physiological effect & indication. 15

Q.2 Write short notes (Any Three) 15
 1. Types of semiconductor. 
 2. Relationship between Cellular biophysics & EMF, 
 3. Production of Ultra Violet Radiation. 
 4. Biophysics & principles of cryotherapy. 

Q.3 Write short notes (Any Two) 10
 1. Types of capacitor. 
 2. Explain contrast bath. 
 3. Explain interrupted direct current. 

SECTION-II

Q. 4 Define lever. Explain the orders of lever with example in human body. 15
 OR

Q. 4 Explain about physical principle & production of beat frequency in IFT. 15

Q. 5 Write short notes (Any Three) 15
 1. Define pulley and its uses in physiotherapy.
 2. Describe in detail about newton's laws of motion. 
 3. Explain axis & planes with diagram. 
 4. Basic principles of Whirl pool. 

Q. 6 Write short notes (Any Two) 10
 1. Define force and its classification.
 2. Explain biophysics & principles of wax bath therapy. 
 3. Explain COG & LOG. 