

BACHELOR OF PHYSIOTHERAPY
First Year SUPPLEMENTARY : 'WINTER- 2022
SUBJECT : FUNDAMENTALS OF ELECTROTHERAPY

Day : Friday

Time : 02:00 PM-05:00 PM

Date : 30-12-2022

W-25048-2022

Max. Marks : 80

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat diagram **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answerbook.

SECTION - A

Q.1 Attempt **ANY TWO** of the following : **(20)**

- a) Explain in detail about physiological and therapeutic effects of paraffin wax bath (PWB). Describe various methods of applications of paraffin wax bath. Add a note on its contra-indication.
- b) What is Cryotherapy? Write down the physiological and therapeutic effects of Cryotherapy. Add a note on various methods of application of cryotherapy.
- c) Discuss in detail Physiological effects and Therapeutic effects of heat-therapy. Add a note on the construction of a Hydrocollator unit.

Q.2 Write **ANY FOUR** of the following : **(20)**

- a) Define Lenz's law and add a note on strength and direction of induced EMF.
- b) What is piezo and reverse piezo electric effect? Explain methods of testing Ultrasound.
- c) Write about Kromyer lamp and high pressure mercury vapour lamp.
- d) Condenser.
- e) Types of electrodes in Short Wave Diathermy.

SECTION - B

Q.3 Attempt **ANY TWO** of the following : **(20)**

- a) Explain in detail about Pain gate theory. Discuss types of TENS.
- b) Write principles and production of IFT. Draw and label panel diagram for of IFT and explain amplitude modulation in IFT.
- c) Discuss physical characteristics of IRR. Write about production of Luminous and Non-Luminous generators.

Q.4 Write **ANY FOUR** of the following : **(20)**

- a) Explain modes and transmission of heat.
- b) Electromagnetic induction
- c) Properties of laser.
- d) Whirlpool bath
- e) Electric shock
