

BACHELOR OF PHYSIOTHERAPY (BPTH)
First Year BPTH : WINTER- 2022
SUBJECT : FUNDAMENTALS OF ELECTROTHERAPY

Day : Wednesday
Date : 16-11-2022

W-25048-2022

Time : 02:00 PM-05:00 PM
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) Discuss in detail physiological effects and therapeutic effects of heat therapy. Add a note on various methods of application of Paraffin wax bath.
- b) Discuss physiological effects of Contrast Bath. Discuss indications and contraindications. Add a note on method of application of Contrast Bath.
- c) Explain the construction of Whirlpool bath with a neat and label diagram. Add a note on contraindications of the same.

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

- a) Tridymite formation.
- b) Explain Electrical skin resistance and methods of reducing Electrical Skin resistance.
- c) What is Strong surged faradic current? And waveforms of original faradic current.
- d) Functions of transformer.
- e) Semiconductor.

SECTION - B

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

- a) Differentiate in between Luminous and Non-luminous IRR. Add a note on laws governing radiation.
- b) Discuss production of Ultrasound therapy. Draw a neat labeled panel diagram. Discuss different methods of testing Ultrasound.
- c) Write principles and production of IFT. Draw and label panel diagram for of IFT and explain amplitude modulation in IFT.

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

- a) Methods of applications of cryotherapy.
- b) Types of electrodes in SWD.
- c) Explain the construction of hydrocollator unit.
- d) Explain in detail types of TENS.
- e) Properties of laser.
