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EXAMINATION : APRIL- 2022
FIRST YEAR

A

Subject: Fundamentals of Electrotherapy (BPT- 21105)

Date: 13/04/2022

Total Marks: 80

Time: 10.00 am to 1.00 pm

SECTION – A

Q.1 Answer the following questions in short (Any five) (15)

- a. Cold LASER
- b. State inverse square law and applications of it
- c. Define coupling media and uses of it
- d. What is earthing and its importance
- e. What is capacitor and connections of it
- f. Lewis-Hunting reaction

Q.2 Answer the following questions (Any Five) (35)

- a. Write in detail about properties of magnet.
- b. Write a difference between galvanic and faradic current.
- c. Write in detail about whirlpool bath.
- d. High frequency mercury vapour lamp
- e. Write about thermal and non-thermal effects of ultrasound.
- f. What is transformer and explain types of it.

SECTION – B

Q.3 Answer the following questions in detail (Any one) (15)

- a. Explain in detail about IFT, write physiological effects, indications, contraindications of it. Add a note on beat frequency and draw neat labeled panel diagram.
- b. Classify low frequency currents. Describe different wave forms of faradic current, indications and contraindications of it. Draw & label panel diagram of electrical stimulator.

Q.4 Answer the following questions in detail (Any one) (15)

- a. Explain in detail about production & working of SWD with panel diagram. Write indications and contraindications of it. Add a note on Eddy currents.
- b. Explain in detail about production of ultrasound with diagram. write in detail about physiological effects, indications, contraindications and dangers of it.
