

Roll no - 4147

Sr.No.7954

Exam Code: 106701
Subject Code : 1041

**Bachelor in Physiotherapy - Ist Year (B.P.T.) (Batch 2022-26)
(2523)**

Paper-IV : Electrotherapy-I

Time allowed: 3 hrs.

Max. Marks: 100

Note:- Attempt FIVE questions in all, selecting atleast ONE question from each section. The FIFTH question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. Write in detail about
 - a) Physical principles and properties of light.
 - b) Properties of matter
2. Write a brief note on
 - a) Viscosity
 - b) Electromagnetic spectrum
 - c) Ohm's Law
 - d) Structure of atom
 - e) Transistors

SECTION-B

3. Explain in detail about principle of application, effects, indications, contraindications, patient preparation and equipment preparation of Iontophoresis.
4. Write in detail about the following
 - a) Draw and explain SD-curve, Chronaxie and rheobase
 - b) Types, Indications and theories of pain relief by TENS

SECTION-C

5. Discuss in detail about the dose, production, physiological effects, therapeutic effects and dangers of infra red rays.
6. Write in detail about the wavelength, frequency, indications, contraindications, precautions and patient preparation of UVR.

SECTION-D

7. Write in detail about the mode of heat transfer, physiological effects, methods of application, indications and contraindications of moist heat.
8. Write in detail about the mechanism of production, method of application, therapeutic effects, apparatus preparation, patient preparation and precautions of paraffin wax bath.

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Exam Code: 106701
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Bachelor in Physiotherapy - 1st Year (B.P.T.)
(Batch 2023-27)
(2524)

Paper-IV: Electrotherapy-I

Time Allowed: 3 hrs.

Max. Marks: 100

Note: Attempt total five questions. Attempt one question from each section and fifth question from any of four sections.

Section A

1. A. Write about thermal effects of current?
B. Write about electromagnetic spectrum, electromagnetic induction and its application in Physiotherapy? (2X10)
2. A. Write about Physical principles of light and sound?
B. Write notes on capacitors, conductors, resistance and insulators? (2X10)

Section B

3. A. What is shock. What are the dangers, precautions and safety measures to prevent shock?
B. Write down about pain gate theory? (2X10)
4. A. Write about TENS in detail?
B. Write about hydrocollator packs in detail? (2X10)

Section C

5. Write in detail about UVR, its types, indications and contraindications? (20)
6. Write about IR, its types, generation, physiological effects, indications and contraindications? (20)

Section D

7. Write about paraffin wax bath in detail? (20)
8. Write about hydrocollator packs, physiological effects, indications and contraindication. Also write its application in low back pain? (20)

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Sr.No.8004

Exam Code: 106701
Subject Code : 001041

Bachelor in Physiotherapy – 1st Year (B.P.T.) (Batch 2024-28)
(2525)

Paper-IV: Electrotherapy-I

Time allowed: 3 hrs.

Max. Marks: 100

Note: Candidates must attempt five questions, selecting one question from each Section, each question carries 20 marks. The fifth question may be attempted from any Section.

Section - A

Ques 1- Write down a brief note on:

- a. Capacitance, Condensers and Electromagnetic induction.
- b. Light and its properties.

(10+10)

Ques 2- Write down a brief note on:

- a. Structure of atom, molecules, elements and compound.
- b. Transformer and Choke coil.

(10+10)

Section - B

Ques 3- Write in detail about the indications and contraindications of Iontophoresis. (20)

Ques 4(a)- Write about the theories of pain and types of TENS.

- (b)- Write a note on faradic current and its applications.

(10+10)

Section - C

Ques 5- Explain the physiological and therapeutics effects of UVR.

(20)

Ques 6- a. Write in detail about therapeutics effects of IRR.

- b. Write a note on contraindications and indications of IRR.

(10+10)

Section - D

Ques 7- Write in details about Paraffin wax bath.

(20)

Ques 8-(a) Write a note on mode of heat transfer.

- (b) Write a note on physiological effects of moist heat packs.

(10+10)

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