

51213
Second BPTH (2012) Examination, Summer (Phase - III All Other
Remaining UG/PG Courses) - 2020
ELECTROTHERAPY



Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

- Instructions :**
- 1) Use blue/black ball point pen only.
 - 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) All questions are compulsory.
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 - 7) Use a common answer book for all sections.

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SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six) :

[5 × 3 = 15]

- a) Russian currents parameters. ✓ 1
- b) Six contraindications for Short wave diathermy. ✓ 2
- 6 c) Arndt-Schultz Principle.
- d) Classification of ultraviolet rays. 1
- e) Types of electrodes used in SWD. 2
- f) Advantages & disadvantages of strength duration curve. 1

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2. Short answer question (any five out of six):

- a) Describe Pain pathway and explain Pain gate theory. 5
- b) Describe Phonophoresis.
- c) Physiological & therapeutic effects of Pulsed SWD. 6
- d) Acceleration of wound healing by using UVR and LASER. 5
- e) Merits, Demerits and uses of Biofeedback. 3
- f) Define T.E.N.S. It's classification and electrode placement sites. 7

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) Define LASER, it's properties, biological effects, indications and contraindications. 10
- b) What is Interferential therapy? Write the Principles of I.F.T. and Therapeutic uses according to different modes and beat Frequencies. Advantages of Interferential therapy over Low frequency currents.

4. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) Describe the Physiological effects of Faradic current and write the therapeutic effects. Add a note on principle and technique of application during Faradic Re-education.
- b) Describe physiological effects, therapeutic effects and contraindications pertaining to ultraviolet rays. 10



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Second B.P.TH. (2012) Examination, Summer - 2021
ELECTROTHERAPY

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Total Marks : 80

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SECTION - "A" (SAQ) (50 Marks)

1. Short answer question (**any five** out of six) : [5 × 3 = 15]
 - a) Classify Low Frequency Currents
 - b) Enumerate any 3 Coupling media along with their percentage of transmission
 - c) Define Rheobase and Chronaxie
 - d) Define a Motor Point
 - e) Enumerate any Three Dangers of Infrared Rays
 - f) Enumerate any 3 Properties of Laser

2. Short answer question (**any five** out of six) : [5 × 7 = 35]
 - a) Enumerate types of TENS. Explain any 2 in detail.
 - b) Classify IR. Describe the structure of Luminous and non luminous IR.
 - c) Explain different methods of application of SWD and contraindication for the same.
 - d) Define MED in Ultra Violet Radiations and describe the technique for measuring the same in UVR.
 - e) What is faradic Re-education? Explain the technique in brief.
 - f) Describe in detail Pain Gate Theory and enlist modalities that use the same.

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SECTION - "B" (LAQ) (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Define Iontophoresis. State its principle and describe the method of application. State its dangers. Enumerate any 5 ions with their uses.
 - b) Define Ultrasound. Describe the physiological and therapeutic effects of ultrasound and write its contraindications.
4. Long answer question (any one out of two) : [1 × 15 = 15]
- a) Describe the physiological and therapeutic effects of interrupted galvanic currents. State its Indications and contraindications.
 - b) What is Faradism under pressure? State its Principle of application. Describe the technique and state its contraindications.



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Second B.P.TH. (2012) Examination, Phase - II Summer
ELECTROTHERAPY



Total Duration : 3 Hours

Total Marks : 80

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SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six) : [5 × 3 = 15]
- a) Three Coupling media for Ultrasound with transmission percentage.
 - b) Advantages of various UVR applicators/Types.
 - c) Three Indications of Diadynamic Currents.
 - d) Define Chronaxie and Rheobase.
 - e) Three Uses of Biofeedback in Physiotherapy.
 - f) Three indications for Lasers.

2. Short answer question (any five out of six) :

[5 × 7 = 35]

- a) Explain the regimens for treatment of Psoriasis with UVR.
- b) Describe physiological and therapeutic effects of SWD.
- c) Describe Physiological and therapeutic effects of IFT.
- d) Describe indications and contraindications of Ultrasound.
- e) Write note on various ions used with its effects for Iontophoresis.
- f) Write Indications and contraindications of IRR.

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) Write note on modes of US, Write physiological effects including effects on inflammation stages and tissue healing and therapeutic uses of US.
[4 + 9 + 2]

- b) Explain different methods of application of Short wave diathermy. Describe the dangers and contraindications of SWD with reasons.
[7 + 3 + 5]

4. Long answer question (any one out of two) :

[1 × 15 = 15]

- a) Describe indications of faradic type current. What is faradism under pressure? Add a note on principle and technique of application of faradism under pressure.
[3 + 3 + 9]

- b) Write types of TENS with their parameters. Explain the mechanism of action of conventional TENS in reducing pain with diagram. [8 + 7]

Second B.P.TH. (2012) Examination, Summer - 2023 (Phase III)
ELECTROTHERAPY



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Total Marks : 80

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SECTION - "A" SAQ (50 Marks)

1. Short answer question (any five out of six) : [5 × 3 = 15]
 - a) Enumerate 3 Indications for LASER therapy.
 - b) Enlist 3 Contraindications of ultrasound.
 - c) Enumerate 3 Therapeutic uses of Biofeedback.
 - d) Explain the Advantage of interferential therapy over low frequency currents.
 - e) Define Chronaxie and rheobase.
 - f) Enumerate any three differences between faradic and galvanic currents.

2. Short answer question (any five out of six) : [5 × 7 = 35]
 - a) Define MED in Ultra Violet radiations. Describe the technique of Test dose calculation.
 - b) Write a note on Anodal and Cathodal galvanism.
 - c) Write a note on precautions, contraindications and dangers of Short Wave diathermy application.

- d) Classify stages of wound healing. Explain the use of any 2 electrotherapeutic modalities in wound healing.
- e) Define iontophoresis and explain theory of medical ionisation. Describe Effects of various ions with their indications.
- f) Write a note on Therapeutic effects of Interferential therapy (IFT).

SECTION - "B" LAQ (30 Marks)

3. Long answer question (any one out of two) : [1 × 15 = 15]

- a) Describe physiological and therapeutic effects of infra red radiations. Add a note on dangers and contraindications of Infrared radiations.
- b) Define TENS. Enumerate different types of TENS. Describe various types of TENS with their pain modulating mechanisms. Enlist the contraindications for TENS application.

4. Long answer question (any one out of two) : [1 × 15 = 15]

- a) What is Strength duration curve? Explain the characteristics of SD curve related to interpretations. What are the advantages and limitations of SD curves.
- b) Describe physiological and therapeutic effects of ultrasound. Add a note on the mechanism of phonophoresis.

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Second B.P.TH. (2012) Examination, Summer - 2026 Phase - II
ELECTROTHERAPY

Total Duration : 3 Hours

Total Marks : 80

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 - 7) Use a common answerbook for **all** sections.

SECTION - A (SAQ) (50 Marks)

1. Short Answer Questions (**any five out of six**) : [5×3=15]
 - a) Describe didynamic currents.
 - b) Enumerate any six dangers of short wave diathermy.
 - c) Define TENS and enumerate its types.
 - d) Describe in brief types of UVR.
 - e) Describe Phonophoresis.
 - f) Describe Half Value Depth.

2. Short Answer Questions (**any five out of six**) : [5×7=35]
 - a) Difference between Faradic and Galvanic current.
 - b) Describe types of wounds and describe the electrotherapy modalities for wound care.
 - c) Write about the principles of strength Duration Curve. Draw a diagram showing SDC in case of neurapraxia and complete deneravation.

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- d) Describe the mechanism of ionization and dangers. Give examples of three ions with their effects and uses.
- e) Describe the technique and application of faradism under pressure. Add a note on its indication.
- f) Describe therapeutic effects of Infra Red Radiation. Add note on contraindications to IR.

SECTION - B (LAQ) (30 Marks)

3. Long Answer Questions (**any one** out of two) : **[1×15=15]**

- a) Define Biofeedback. Write principles of biofeedback. Write a note on uses of Biofeedback.
- b) What are medium frequency currents? Write in details the type of electrodes used in Interferential Therapy (IFT). Describe the techniques of application of IFT. Add note on its advantage over low frequency currents.

4. Long Answer Questions (**any one** out of two): **[1×15=15]**

- a) Describe technique and application of He-Ne LASER. Write a detailed note on indications, contraindications and dangers.
- b) State and define types of short wave diathermy. Describe in details various methods of application of short wave diathermy. Add note on its dangers.

