

**63115****First B.P.Th. (2012) Examination, Summer 2016
FUNDAMENTALS OF ELECTRO THERAPY****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.*

SECTION — A SAO (50 Marks)

1. Short answer question (any five out of six) : (5x3=15)
 - a) Cosine Law.
 - b) Contrast Bath.
 - c) Capacitance.
 - d) Joule's Law.
 - e) Amplitude modulation in interferential therapy.
 - f) Precautions for application of thermotherapy.
2. Short answer question (any five out of six) : (5x7=35)
 - a) Classification of currents.
 - b) Define TENS. Write down its types.
 - c) Sources of infrared radiations.
 - d) Modes of heat transfer.
 - e) Whirlpool bath.
 - f) What are the types of LASER ? Write its properties.

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SECTION — B LAQ (30 Marks)

3. Long answer question (**any one** out of two) : (1 x1 5=15)

- What is cryotherapy ? Write down various methods and the techniques of its application.
- Explain the production of UVR with a labelled diagram. Add a note on tridymite formation.

4. Long answer question (**any one** out of two) : (1 x1 5=15)

- Draw a panel diagram of therapeutic ultra sound and explain its production. Add a note on coupling media.

✓ (b) Draw a circuit diagram of Short Wave Diathermy. Write down the effects and dangers of Short Wave Diathermy.

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