



51213

**Second B.P.Th. (2012) Examination, Summer 2016
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 answerbook for **all** sections.

SECTION — A

(50 Marks)

(SAO)

1. Short answer question (**any five** out of six) : **(5x3= 15)**
 - a) Enumerate any three ions used in iontophoresis along with its polarity.
 - b) Write any six contraindications of SWD.
 - c) Define Cavitation and Acoustic streaming.
 - d) Uses of strong surged faradic current.
 - e) Three contraindications of IR.
 - f) Write characteristics of normal SD curve.
2. Short answer question (**any five** out of six) : **(5x7=35)**
 - a) Write principles, methods and uses of Biofeedback.
 - b) Describe Physiological and therapeutic effects of radiant heat.
 - c) Explain therapeutic effect of Ultrasound on inflammation and repair process.

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- d) Explain different methods of application of SWD.
- e) State the properties of LASER. Explain the mechanism of wound healing by application of LASER.
- f) Define T.E.N.S. Discuss physiological and therapeutic effect of T.E.N.S.

SECTION — B

(30 Marks)

(LAO)

3. Long answer question (**any one** out of two) : (1x15= 15)

- a) Define pain and explain pain pathway. Describe pain gate theory and descending pain suppressing system. (7+8)
- b) Describe the 'Physiological and therapeutic effects of Faradic current. Add a note on principle and technique of application of Faradic Re-education. (5+5+5)

4. Long answer question (**any one** out of two) : (1x15= 15)

- a) Define Interferential therapy and state its principle. Describe Physiological and Therapeutic effects of IFT. Describe technique and methods of application of I FT. (3+6+6)
- b) Define and classify Actino therapy. Describe in detail the physiological effects of UVR and explain the procedure for test dose. (4+7+4)
