

**51213**

Second B.P.Th. (2012) Examination, Winter 2016
ELECTROTHERAPY

Total Duration : Section A + B = 3 Hours

Total Marks : 80

SECTION - A & SECTION - B

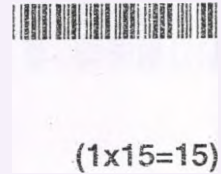
- Instructions:**
- 1) Use **blue/black** ball point pen **only**.
 - 2) **Do not** write anything on the **blank portion of the question paper**. If written anything, such type of act will be considered as an attempt to resort to unfair means.
 - 3) **All questions are compulsory**.
 - 4) The number 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 (SAO) (50 Marks)

1. Short answer question (any five out of six) : (5x3=15)
 - a) Discuss property of accommodation.
 - b) Write any three differences between galvanic and faradic current.
 - c) Discuss any two laws of radiation with application to physiotherapy.
 - d) Discuss types of electrodes used in Short wave diathermy.
 - e) Explain E-2 dose of Ultra violet radiation.
 - f) Mention any three ions with the solution used for pain relief.
2. Short answer question (any five out of six) : (5x7=35)
 - a) Write a note on strength duration curve.
 - b) Briefly discuss therapeutic effects of pulsed SWD.
 - c) Discuss principles and uses of biofeedback.
 - d) Discuss properties and uses of LASER.
 - e) Discuss physiological and therapeutic effects of Ultra sound.
 - f) Discuss application of UVR in wound healing.

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SECTION — B (LAO) (30 Marks)

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

- a) Discuss positioning of electrodes in short wave diathermy. Also, discuss its indications and contra indications. (7+4+4)
- b) Discuss physiological and therapeutic effects of Interferential therapy. Also, discuss advantages of Interferential therapy over low frequency currents. (10+5)

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

- a) Describe the different types of **IR** generators .Also discuss the indications and contra indications of **IR** radiations. (7+4+4)
- b) Discuss physiological and therapeutic effects of faradic currents. Also, discuss faradism under pressure along with its application. (3+7)