FUNDAMENTALS OF ELECTRO THERAPY – V

Total Duration: Section A + B = 3 Hours

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
(SAQ) (50 Marks)

1. Short answer question (any five out of six):
   a) Define specific heat.
   b) Explain Thermionic valves.
   c) Define Latent heat.
   d) Define grothus law.
   e) Define coupling media.
   f) Describe characteristics of laser.

2. Short answer question (any five out of six):
   a) Explain different laws governing radiation.
   b) Explain the surging and pulse width modulation of faradic type current.

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c) Discuss physiological effects and methods of application of hydro-collator packs.

d) Discuss luminous and non-luminous generators in IRR.

e) Discuss various field risk factors on prolong exposure to Electro magnetic field.

f) Discuss duration, frequency and waveforms of interrupted galvanic current.

SECTION - B

(30 Marks)

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

   a) Write down the physiological effects of cryotherapy. Explain methods of application of cryotherapy. Also, write down the contraindications of cryotherapy.

   b) Explain in detail about paraffin wax bath. Write down the various methods of application of paraffin wax bath. Add a note on its contraindications.

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

   a) Describe the production of U.V.R. Draw its panel diagram. Also, write about its testing of apparatus.

   b) Draw a neat labelled diagram showing production of S.W.D and explain it in detail. Also, add a note on effects of high frequency currents on tissue.