

P P SAVANI UNIVERSITY

Fourth Semester of B. P.T. Examination

July-August 2021

SPPT2081 Electrotherapy-II

24.07.2021, Saturday

Time: 10:00 a.m. To 1:00 p.m.

Maximum Marks: 70

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

Q - 1 Essay Question (Any One) [10]

- (i) Describe the production of Infrared Radiation. Mention about its type of generators and it's working. Explain about the techniques of the treatment
- (ii) Define Micro Wave Diathermy. Explain the production, applicators, therapeutic effects and contra indication of MWD.

Q - 2 Short Note (Any Two) [10]

- (i) Write about Indications and contra indications of Shortwave diathermy.
- (ii) Define Cryotherapy. Explain the methods of application.
- (iii) Method of application of SWD.

Q - 3 Very Short Notes (Any Five) [15]

- (i) UVR new dose calculation formula.
- (ii) Uses of PEME.
- (iii) Indications for infra-red radiation.
- (iv) Physiological effects of heat.
- (v) Hydrotherapy: Indications & Therapeutic use.
- (vi) Therapeutic effects of COLD.
- (vii) Electro Magnetic Spectrum.

SECTION - II

- Q -1 Essay Question (Any One) [10]**
- (i) Explain in detail about principles, application, types and therapeutic effects of LASER.
 - (ii) Define Ultra sound. Explain the Treatment parameters and Physiological effects of ultrasound.
- Q - 2 Short Note (Any Two) [10]**
- (i) Define Phonophoresis and its methods of application.
 - (ii) Write about production of Laser and its therapeutic effects.
 - (iii) Principles of application of Wax bath for Rheumatoid Arthritis and its home programme.
- Q - 3 Very Short Notes (Any Five) [15]**
- (i) Laser and its properties.
 - (ii) Attenuation in ultrasound.
 - (iii) Effects of Contrast bath.
 - (iv) Explain CPM unit and its indication.
 - (vi) Therapeutic uses of hydro collator packs.
 - (vii) Shock wave therapy and its applications.
 - (v) *Write about combination therapy.*
