

Question Paper

Exam Date & Time: 08-Aug-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT DEGREE EXAMINATION - AUGUST 2024
SUBJECT: PTH1201 - THEORETICAL CONCEPTS IN BASICS OF EXERCISE THERAPY - II
(2020 SCHEME)

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) Define passive movements and passive accessory movements. Describe the principles, effects and uses of passive movements. Enumerate the clinical application of passive accessory movements. (4+4+4+4+4 = 20 marks) (20)
- 2) Outline the principles and types of breathing exercises. Explain in detail the procedure for various types of breathing exercises. (5+15 = 20 marks) (20)
- 3) Explain the physiological basis of relaxation with illustrated diagrams. (10)
- 4) Explain the types and techniques of suspension therapy. (10)
- 5A) Enumerate the physiological effects of therapeutic massage. (5)
- 5B) Explain the types of trick movements. (5)
- 5C) Explain the postural drainage for lower lobes with an illustrated diagram. (5)
- 5D) Explain the physical properties of water. (5)
- 5E) List any two equipment in therapeutic gymnasium and explain its uses. (5)
- 5F) List the indications and contraindications for active movements. (5)
- 6A) Define Relaxation. (2)
- 6B) Define Trick Movements. (2)
- 6C) List the steps in Buteyko breathing. (2)
- 6D) Define broncho-pulmonary segment. (2)
- 6E) List four uses of hydrotherapy. (2)

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Question Paper

Exam Date & Time: 09-Aug-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER BPT DEGREE EXAMINATION - AUGUST 2024
SUBJECT: PTH1202 - THEORETICAL CONCEPTS IN ELECTROTHERAPY - I
(2020 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1) Explain the production and properties of therapeutic ultrasound. Add a note on the treatment parameters used in application of therapeutic ultrasound. (10)
(6+4 = 10 marks)
- 2) Explain the principles and methods of application of shortwave diathermy. Add a note on the precautions to be taken while using short wave diathermy. (10)
(8+2 = 10 marks)
- 3A) Explain the procedure of dosage calculation for ultraviolet therapy. (5)
- 3B) Explain the physiological effects of infrared radiation. (5)
- 3C) Explain the properties and contraindications of low-level LASER therapy. (5)
(2½+2½ = 5 marks)
- 3D) Explain the physiological effects of microwave diathermy. (5)
- 4A) List ANY FOUR contraindication for the use of infrared therapy. (2)
- 4B) List ANY FOUR therapeutic effects of extra corporal shock wave therapy. (2)
- 4C) Name the different types of electrodes used in shortwave diathermy. (2)
- 4D) Name ANY FOUR non thermal effects of therapeutic ultrasound. (2)
- 4E) What is the ultraviolet therapy dose for infectious wounds? (2)

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